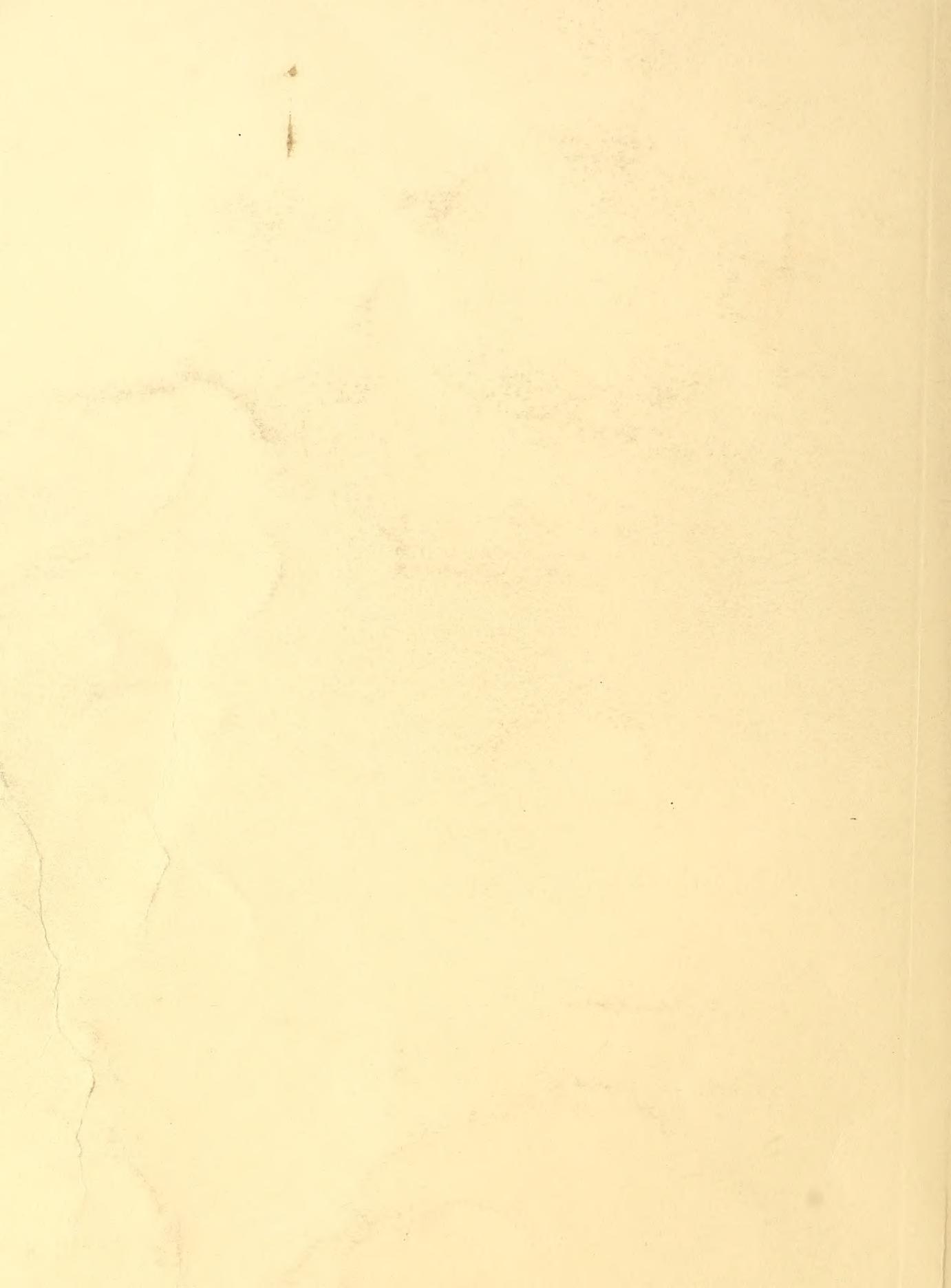


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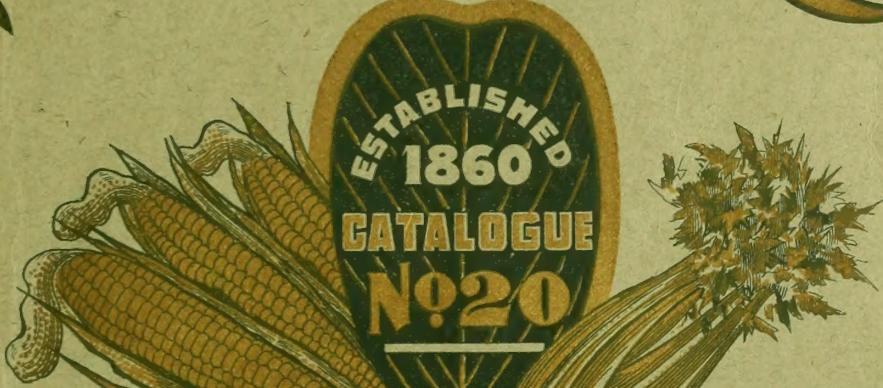
Do not assume content reflects current scientific knowledge, policies, or practices.



1907

LIBRARY,  
U.S. Department of Agriculture,  
Washington, D. C.

# Griffith AND Turner Co.



ESTABLISHED  
1860  
CATALOGUE  
No. 20



GENERAL OFFICES, 205, 207, 209, 213 & 215 N. PACA ST.

BALTIMORE, MD.

BRANCH HOUSES, 366 N. GAY ST. BALTIMORE AND REISTERSTOWN, MD.

Prospective Customers who are not rated in the Commercial agencies will save time in having their goods shipped by accompanying their Orders either with the Cash or satisfactory references. Baltimore references preferred.

**NOTICE.—We make a specialty of quoting on complete outfits. SEND FOR PRICES.**

**FILLING ORDERS.—Every order is filled and forwarded as promptly as possible, but if not duly received, please notify us and we will make every effort to trace it without delay. Do not fail to sign your name and give full address.**

**PACKING AND SHIPPING.—We make no charge for boxes or packing of retail orders, and deliver all goods to any railroad or steamboat free of charge. We charge for cotton bags as follows: Peck and  $\frac{1}{2}$  bushel, 10 cents each; 1 bushel, 15 cents each; 2 bushels, 20 cents each.**

**HOW TO REMIT.—Remittances should be made by Draft, Express Money Order, P. O. Money Order or Registered Letter.**

**WE PAY THE POSTAGE TO ANY POST OFFICE IN THE UNITED STATES ON ALL VEGETABLES AND FLOWER SEEDS,** by the Packet, Ounce or Quarter Pound. On quantities over quarter pound the purchaser pays the postage at a rate of 8 cents per pound. On Beans, Peas and Corn, 8 cents per pint or 15 cents per quart should be added to Catalogue Prices to pay postage.

**ON EVERY ORDER be sure to sign your name and give your address plainly, as we frequently receive orders lacking either or both; also give full shipping instructions. State it by freight or express and give route. This saves delay.**

**PRICES TO MARKET GARDENERS.—Market gardeners, and all other purchasers of Seeds in large quantities, should send for our special prices.**

#### TIME FOR SOWING IN THE OPEN GROUND.

THESE DIRECTIONS apply to the vicinity of Baltimore and Philadelphia. South of this they should be sown earlier, and North later.

**BEANS.**—From 1st of May till August.

**BEETS.**—Soon as ground can be worked in spring.

**CABBAGE.**—For early use, sow in hot bed in February and transplant in April to open ground; for late use, sow in May or June.

**CAULIFLOWER.**—Sow about the same time as Cabbage. For late crop sow in June, and they will head up in cool weather, and escape injury from the heat.

**CARROT.**—For early, sow from 1st of April to middle of May, and for late crop in June or July.

**CELERY.**—Sow as soon as ground is open in spring, and transplant in July.

**CUCUMBER.**—Sow about 1st of May for early, and for pickling, in July.

**LETTUCE.**—Sow as soon as ground can be worked in spring, and at intervals as desired.

**MELONS.**—Sow in May and June.

**ONION.**—Sow early as possible in spring.

**PARSNIP.**—Soon as ground can be worked.

**PEAS.**—Sow in March, and at intervals through the season, as desired.

**PUMPKIN.**—Plant in May or June.

**RADISH.**—Soon as ground is ready, and all through the season, at intervals.

**SQUASH.**—Soon as ground is warm.

**TOMATO.**—Sow in hot bed in March, and transplant about middle of May.

**TURNIP.**—For early use, in April; for main crop, July and August.

**CABBAGE.**—1 oz. of Seed will produce..... 2000 plants.

**CAULIFLOWER.**—1 oz. of Seed will produce..... 2000 "

**CELERY.**—1 oz. of Seed will produce..... 3000 "

**EGG PLANT.**—1 oz. of Seed will produce..... 1000 "

**LETTUCE.**—1 oz. of Seed will produce..... 3000 "

**PEPPER.**—1 oz. of Seed will produce..... 1000 "

**TOMATO.**—1 oz. of Seed will produce..... 1500 "

#### TO COUNTRY MERCHANTS.

WE PUT UP VEGETABLE SEEDS in papers for the Country Trade in quantities to suit purchasers.

#### WEIGHT OF AGRICULTURAL SEEDS, PER BUSHEL, AND QUANTITY USUALLY SOWN PER ACRE.

Weight per Bushel.	Pounds per Acre.
14 lbs. Kentucky Blue.	28 lbs.
10 " Red Top, if for lawns.	30 to 40 "
10 " Red Top, if for pasture.	15 to 30 "
32 " Red Top, extra recleaned	20 to 25 "
14 " Orchard Grass.	42 "
24 " English Rye or Perennial Rye.	60 "
22 " Italian Rye.	50 "
14 " Meadow Fescue.	50 "
14 " Tall Meadow Fescue.	50 "
12 " Sheep Fescue.	30 "
7 " Meadow Foxtail.	30 "
21 " Crested Dog's Tail.	25 "
14 " Awnless Brome.	35 to 40 "
14 " Wood Meadow.	30 "
30 " Creeping Bent.	50 "
10 " Tall Meadow Oat.	50 "
45 " Timothy, alone.	3/4 bus.
" with other grasses.	8 to 10 lbs.
60 " Alsike, alone.	6 "
60 " Alfalfa or Lucerne.	20 "
60 " White Clover, alone.	6 "
" White Clover, with other grasses.	3 "
30 " Evergreen Lawn.	3 to 4 bus.
60 " Crimson Clover.	15 to 20 lbs.
50 " German Millet.	50 "
48 " Hungarian Millet.	48 "
60 " Red Clover.	15 "
Together for an acre	
Red Clover.	8 "
Timothy.	10 "
Red Top.	14 "
Wheat, broadcast.	1 1/2 to 2 bus.
Wheat, in drills.	1 1/2 to 2 "
Rye, broadcast.	1 "
Oats, broadcast.	2 to 2 1/2 "
Sorghum, drills.	4 qts.
Sorghum, broadcast.	8 "
Flax, for seed.	1 bus.
Flax, for fibre.	2 to 3 "

#### WEIGHT OF AGRICULTURAL SEEDS, QUANTITY, ETC.—Continued.

Weight per Bushel.	Pounds per Acre.
56 lbs. Field Corn, in hills	8 qts.
56 " Corn, for soiling	1 to 2 bus.
60 " Vetches, broadcast	2 to 3 "
48 " Barley, broadcast	2 "
" Broom Corn, in hills	6 to 8 qts.
48 " Buckwheat, broadcast	1 bus.
" Teosinte, in hills	1 to 3 lbs.

#### VEGETABLE SEED TABLET

#### THE QUANTITY OF SEED USUALLY SOWN TO AN ACRE.

Asparagus.	5 lbs.
Beans, dwarf in drills.	1 to 1 1/2 "
Beans; pole, in hills.	8 to 10 qts.
Beet, in drills.	4 to 6 lbs.
Cabbage, in beds, to transplant.	2 to 3 lbs.
Carrot, in drills.	2 to 3 lbs.
Celery, to transplant.	1/2 lb.
Corn, in hills (sugar).	8 qts.
Kale.	4 to 6 lbs.
Melon, musk.	1 1/2 to 2 "
Melon, water.	2 to 3 lbs.
Mustard, broadcast.	12 to 16 lbs.
Mangelwurzel.	4 to 6 lbs.
Onions, in drills to make large onions.	6 to 8 "
Onion Seeds, for small sets.	40 to 60 "
Parsnips, in drills.	4 to 6 "
Peas, early, in drills.	1 bus.
Peas, Marrowfat, 2n drills.	1 1/4 "
Peas, broadcast.	2 to 3 "
Potato, cut tubers, in drills.	8 "
Radish, in drills.	6 to 8 lbs.
Salsify, in drills.	6 to 8 "
Spinach, in drills.	12 to 15 "
Squash, bush varieties, in hills.	4 to 6 "
Squash, running varieties, in hills.	3 to 4 "
Turnip, in drills.	1 lb.
Turnip, broadcast.	2 to 3 lbs.
Tomato, to Transplant.	2 to 3 lbs.

Our seeds are select and tested, and give satisfaction wherever used.

Beans, Peas, Corn, etc., in bulk, at lowest wholesale rates. Write for special quotations in quantities.

Should you have placed your order for small papers for this year, we will be pleased to fill any shortage you may have, and solicit your patronage for another season.

#### HINTS ON TRANSPLANTING TREES.

The proper season for transplanting fruit trees is during the months of February, March and April in the spring, and October, November and December in the autumn.

#### PROPER AGE AND SIZE OF TREES FOR TRANSPLANTING.

Experience has taught observing planters that a small, young tree, set at the same time, will in a few years overtake and pass a large one, and continue more vigorous and productive. Large trees are necessarily or unavoidably more injured in digging than small ones. The latter can be moved with their system of roots almost entire.

#### NUMBER OF TREES AND PLANTS TO AN ACRE.

3 feet each way.	4840	20 feet each way.	108
4 "	2722	25 "	69
5 "	1742	30 "	48
6 "	1210	33 "	40
8 "	680	35 "	35
10 "	435	40 "	27
12 "	302	45 "	21
15 "	193	50 "	17
18 "	134		

#### DISTANCE FOR PLANTING.

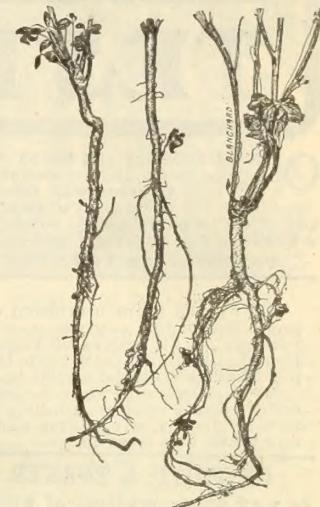
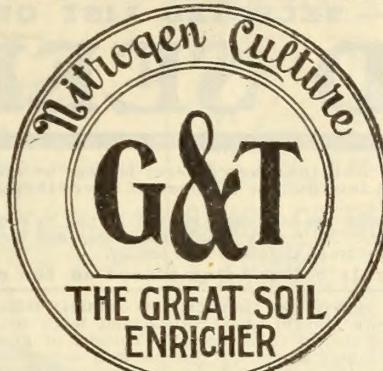
Std. Apple.	33 to 40 feet each way.
Std. Pear and large-growing Cherry.	20 "
Duke and Morello Cherry.	20 "
Std. Plum, Apricot and Nectarine.	15 to 20 "
Peach.	20 "
Quince.	12 "
Dwarf Pear.	10 "
Currant, Gooseberry, Raspberry and Blackberry.	4 to 5 "
Grapes.	6 to 10 "

#### QUANTITY OF SEEDS REQUIRED FOR A GIVEN NUMBER OF PLANTS, NUMBER OF HILLS, OR LENGTH OF DRILLS.

Asparagus	1 oz. to 50 ft. drill
Beet	1 oz. to 50 ft. drill
Celery	1 oz. to 100 ft. drill
Carrot	1 oz. to 100 ft. drill
Endive	1 oz. to 150 ft. drill
Egg Plant	1 oz. to 300 ft. drill
Lettuce	1 oz. to 150 ft. drill
Okra	4 oz. to 100 ft. drill
Onion	1 oz. to 100 ft. drill
Onion Sets, small	1 qt. to 100 ft. drill
Parsley	1 oz. to 150 ft. drill
Parsnip	3 oz. to 100 ft. drill
Radish	2 oz. to 100 ft. drill
Salsify	1 oz. to 70 ft. drill
Spinach	2 oz. to 100 ft. drill
Turnip	1 oz. to 150 ft. drill
Peas	1 qt. to 100 ft. drill
Dwarf Beans	1 qt. to 100 ft. drill
Leek	1 oz. to 100 ft. drill
Pole Beans	1 qt. to 150 hills
Corn	1 qt. to 200 hills
Cucumber	1 oz. to 50 hills
Watermelon	1 oz. to 30 hills
Muskmelon	1 oz. to 60 hills
Pumpkin	1 oz. to 40 hills
Early Squash	1 oz. to 50 hills
Marrow Squash	1 oz. to 16 hills
Cabbage	1 oz. seed will produce 2000 plants
Caulif'r	1 oz. seed will produce 2000 plants
Celery	1 oz. seed will produce 3000 plants
Egg Plant	1 oz. seed will produce 1000 plants
Lettuce	1 oz. seed will produce 3000 plants
Pepper	1 oz. seed will produce 1000 plants
Tomato	1 oz. seed will produce 1500 plants



-Roots of garden pea showing nodules.



Roots of young alfalfa plants showing nodules.

THE UNITED STATES DEPARTMENT OF AGRICULTURE SAYS:  
 "It is worse than useless to attempt to grow any leguminous crop without being certain of the presence of the bacteria which enables the plants to fix free nitrogen. Certain regions are practically devoid of the right kind of bacteria, and unless some artificial means of inoculating the germs be resorted to the crop will be a failure."

## Nitrogen-Collecting Bacteria

### A MISUNDERSTANDING.

When this method of obtaining nitrogen from the atmosphere was first agitated and placed experimentally among farmers in various sections of the country, the result was so gratifying that others, not thoroughly understanding all the conditions attendant upon the proper applications, jumped to the conclusion that any soil upon which the bacteria were applied would produce like results. They did not stop to consider that where there is sufficient nitrogen no more can be taken up by the soil, in consequence apparent failure was the result. Again, some have imagined that these bacteria would of themselves alone fill all the requirements of the soil, without the knowledge perhaps that other chemicals must either be in the soil or applied, such as phosphoric acid, and some form of potash, either or both.

Do not lay the blame of failure on the inoculation of the seed when bad seed, improper cultivation and unfavorable weather conditions are the real causes. Failure is almost certain where the directions are not carefully studied and intelligently followed. In the use of cultures for inoculating the farmer should be guided, as in all other matters pertaining to soil treatment, by his own peculiar needs and should not give too great weight to the experiences of others whose soil conditions may differ widely.

### OTHER REASONS FOR FAILURE.

There is also another reason why some have failed to reap fondly anticipated results, and that is soil acidity. All of these false ideas separately or combined have created erroneous ideas in the mind of the average layman.

### INTELLIGENT APPLICATION.

Where intelligently applied, and the application made where nitrogen is needed, all other things being equal, without an exception the results have been most flattering, and we feel justified in continuing to place this material on the market.

### CORRECT THEORY.

The theory is an absolutely correct one, and we anticipate

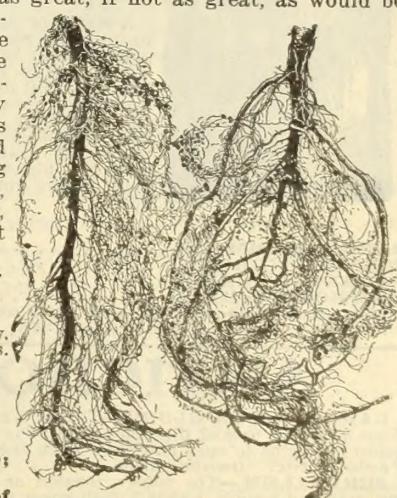
in the near future a great increase in the use of this Nitrogen Collecting Bacteria. The mere fact that where Cow Peas are planted in the same hill with corn, a better crop is the inevitable result. The reason is obvious—the Cow Pea being a legume, or nitrogen gatherer, has the faculty of abstracting from the atmosphere this needed plant food by means of the bacteria contained in the nodules, placing it in direct contact with the roots of the corn.

### RESULTS.

We refer you to results reached through experimentation by the Maryland Agricultural Experiment Station, College Park, Md., in planting corn and cow peas in the same hill. A short while ago one of our most valued customers voluntarily told us that the result reached through the use of Nitrogen Collecting Bacteria was very surprising, and he made the statement for us to publish in order that more of our customers might be encouraged to adopt it.

Again, our Mr. Griffith's farmer stated that the result with him was at least a third increase over seed that had not been inoculated.

These bacteria multiply in the soil very rapidly, and it is possible to treat crops by mixing the bacteria with the soil. This is called inoculating the soil. It is a dangerous proceeding to use inoculated soil unless prepared from your own land, for the simple reason that you may thereby introduce seeds of noxious weeds or the germs of plant disease. Aside from this the expense of hauling or freighting inoculated soil would be almost as great, if not as great, as would be the use of other nitrogenous fertilizers. The benefit does not cease with the crop inoculated, for in many cases better results have been obtained from the succeeding crops, such as wheat, corn, potatoes, barley, etc., than from the first crop.



-Roots of crimson clover showing nodules.

Cultures are furnished for the following named seeds only:

Those carried out on the same line require the same bacteria.

**Alfalfa, or Lucerne.**

**Red Clover.**

**Alsike Clover, White Clover.**

**Crimson Clover.**

**Burr Clover.**

**Japan Clover.**

**Field Peas (Canada**

**Field Peas.)**

**Garden Peas.**

**Sweet Peas.**

**Cow Peas, Whip O'Will**

**Peas and Clay Peas.**

**Garden Beans, including Kidney,**

**Wax, String, Lima and Pea Beans.**

**Soy Beans.**

**Velvet Beans.**

**Vetch.**

**Peanuts.**

**PRICES:**—Special Garden Package, each, 25c.;  $\frac{1}{2}$  acre, \$1.00; 1 acre, \$1.50; 2 acres, \$2.50;  
 3 acres, \$3.00; 5 acres, \$5.00; 20 acres, \$18.00, and 50 acres, \$40.00.

Always state when ordering the kind of seed to be inoculated, as well as number of acres. This will save much delay and trouble.

Cultures will keep one year from date of shipment, and can be used within that time.

# GRIFFITH & TURNER CO.'S

SELECTED LIST OF

# TESTED SEEDS For 1907.

OUR SEEDS are the **BEST** that can be obtained anywhere, because we are as careful in our selection as it is possible for anyone to be, and are constantly on the lookout for the best of everything, but will not put on the market anything until it has been thoroughly tried and proved.

We do not advertise "cheap seeds," because the best seeds cannot be put in competition with "cheap seeds," but we sell as low as any of the other reputable houses in the country. No matter what others may ask for their seeds, better quality cannot be obtained anywhere, as our constantly and rapidly increasing trade does and will testify.

Our seeds are ALL TESTED thoroughly before being placed on the market.

## HOW TO ORDER TO AVOID DELAY.

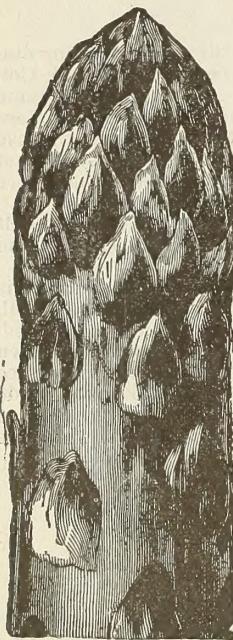
All orders from unknown correspondents should be accompanied with the cash. Money can be safely sent by check, postoffice order, express money order, registered letter or by express, or postage stamps for small amounts. We prepay postage on all orders of Vegetable and Flower Seeds, by the packet, ounce or quarter pound. On quantities over quarter pound, the purchaser pays the postage at the rate of 8 cts. per pound. On Beans, Peas and Corn, 8 cts. per pint or 15 cts. per quart should be added to catalogue prices to pay postage.

By writing out your order on the order sheet sent with each catalogue, you will greatly facilitate our work. Extra order sheets sent on application. Be sure to sign your name in full, giving postoffice and shipping point. If you have rural delivery, give name and number of route. If you want goods shipped by boat or railroad, state which you prefer and what line to send by.

GRIFFITH & TURNER CO. give no warranty, expressed or implied, as to description, quality, productiveness, or any other matter, of any Seeds, Bulbs or Plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

# ASPARAGUS, German, Spargel. Etc.

This is one of the earliest spring vegetables, and should be in universal use. Many persons think it is difficult to grow, but we consider this a mistake, and believe it can be produced as cheaply and easily as any on the list. Sow the seed in the seed bed late in the fall or in the early spring, as soon as the ground can be worked, in drills one foot apart, covering the seed about one inch deep. When the plants are four to five inches high, great care should be taken to keep the bed free of weeds. One ounce of seed will sow forty feet of row. Thin to nine inches in the row.



## PALMETTO ASPARAGUS

This Asparagus, said to have originated in South Carolina, is now quite extensively grown by Southern gardeners for New York and Philadelphia markets, where it sells at very high prices, owing to its mammoth size and regularity. An average bunch of 15 shoots will measure 13 to 14 inches in circumference. For several seasons this Asparagus has reached Northern markets 10 days ahead of all other varieties, and sold at fabulous prices. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 50c. 5 lbs., \$2.00.

**CONOVER'S COLOSSAL.**—The old and well-known variety. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 40c. 5 lbs., \$1.50.

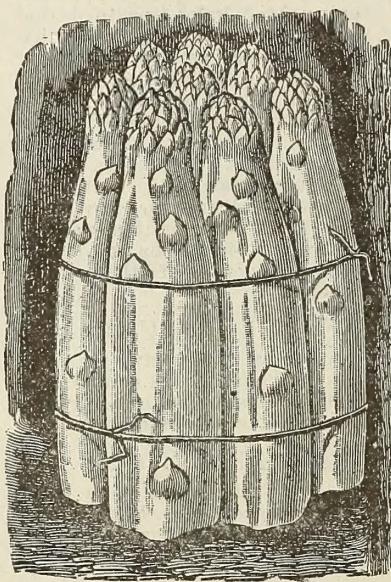
## Asparagus Roots.

A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family. 7260 roots will plant an acre. Select good loamy soil, plow deep, put in good quantity of manure, and 100 pounds kainit to 1000 square feet of bed. Incorporate thoroughly, make a trench eight inches deep, set plants nine inches apart. In field culture rows are placed four feet apart.

	Per 100.	Per 1000
BARR'S MAMMOTH. . . . .	75c.	\$5.50
COLOSSAL (GREEN) . . . . .	70c.	4.50
PALMETTO (GREEN) . . . . .	70c.	5.00
MAMMOTH WHITE . . . . .	75c.	5.50

Extra size roots, 50c. per 1000 additional to above prices, by express, not prepaid.

## Mammoth White Asparagus.



MAMMOTH WHITE.

In addition to the marvelous advantage of its pure white color, the Columbian Mammoth White Asparagus is even more robust and vigorous in habit and throws larger shoots, and fully as many of them, as the Conover's Colossal.

When we add to these the immense advantage of its needing no earthing up in order to furnish the white shoots so much sought after, we think it evident that it is superior to any sort now in cultivation, and that no Asparagus grower can afford to plant seed of any other kind. Market gardeners, growers for canners and amateurs should give this great acquisition a thorough trial. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 50c. 20c. Lb., 60c.

**BARR'S MAMMOTH.** This splendid variety, highly recommended for its many good qualities, is very productive and about 10 days

earlier than Conover's Colossal. The stalks are very large, and retain their thickness completely up to the top of the shoots; very tender and succulent; of delicious flavor; grow very quickly; light in color. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 50c. 5 lbs., \$2.00.



ASPARAGUS BUNCHER.

**BEST ASPARAGUS BUNCHER.**—\$1.50.  
**ASPARAGUS KNIVES.**—30c. By mail, 40c.

## ASPARAGUS KNIFE.



Made of solid steel; see the cutting point.  
Price, 30c. each. By mail, 40c.

## ARTICHOKEs.

**LARGE GREEN GLOBE.**—This is a very nice vegetable to eat. Some prefer it cooked like Asparagus; that is, take the flower head before it begins to open and cook much the same way as Asparagus. Packet, 10c. Ounce, 35c.

**JERUSALEM.**—The tubers roasted or boiled, served with butter, salt and pepper, makes a dish some think superior to potatoes. They are most excellent feed for cows, and will cause an increase in quantity and quality of milk. Peck, \$1.00. Bushel, \$2.50.

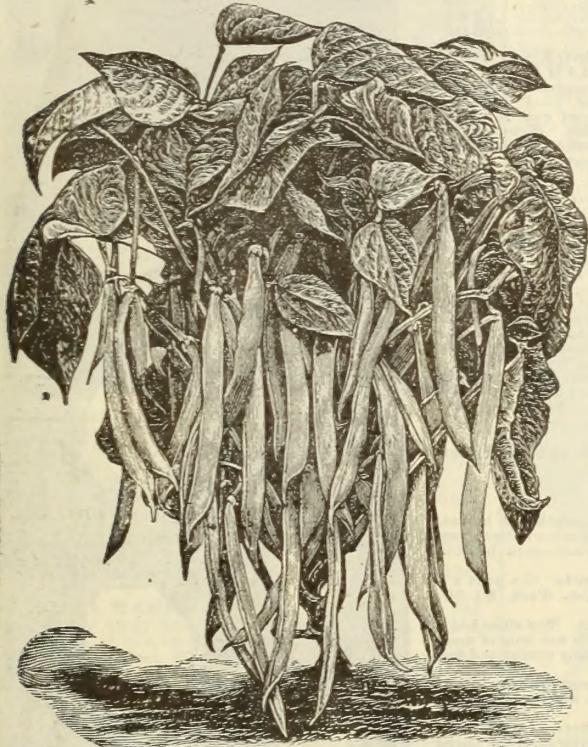
# BEANS.

## DWARF BUSH OR SNAP.

1 quart will plant 100 feet of drill.

Add Se. per pint, or 15c. per quart, on all Beans if to be sent by mail.

Select light, warm soil, and plant when danger from frost is past in the spring, in drills 2 to 2½ feet apart, dropping the Beans about 2 inches apart in the drills, and cover 2 inches deep. A succession of sowings can be made from the first week in May until August.



WARDWELL'S KIDNEY WAX.

## DWARF WAX PODDED.

### WARDWELL'S KIDNEY WAX BEAN.

This is one of the best wax sorts. The vines are remarkably vigorous, hardy and productive. The pods are very large, smooth, showy, tender, perfectly stringless, and of unusually fine quality.

Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$6.00.

**NEW PENCIL POD WAX BEAN.**—Very early and productive. Pods long, straight and handsome; color light golden yellow; strong and vigorous bush. One of the best varieties.

Pint, 15c. Quart, 25c. Peck, \$1.40. Bushel, \$4.75.

**CURRIE'S RUSTPROOF BLACK WAX.**—For earliness and freedom from rust it is at the head of the Wax Bean family. Habit, upright and robust, holding the pods well from the ground. Pods long, straight, flat and very meaty, of a beautiful color; quality not surpassed, and for productivity it is unequalled.

Pint, 15c. Quart, 25c. Peck, \$1.25. Bushel, \$4.50.

**IMPROVED RUSTPROOF GOLDEN WAX.**—This is the earliest, handsomest and hardiest of all the Wax Beans. The pods are straight, long and thicker than the ordinary Golden Wax, much superior in quality, absolutely rustproof and sure to become the favorite Wax Bean; in fact, it has already gained great popularity with growers.

Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.50.

**GOLDEN-EYED WAX.**—This Bush Bean is very early; the vine grows vigorously to about one and a-half feet high, holding pods off the ground. The pods are handsome, long, straight and flat, remarkably free from rust.

Pint, 10c. Quart, 20c. Peck, \$1.25. Bushel, \$4.25.

**DAVIS' KIDNEY WHITE WAX.**—Vigorous grower, bears abundantly; long, white, handsome pods, which are crisp and tender if gathered when young.

Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.00.

**DWARF PROLIFIC BLACK WAX.**—Yellow pod, a very superior snap sort, ripening among the first earlies, and having the best characteristics. Very tender.

Pint, 15c. Quart, 25c. Peck, \$1.50.

Bushel, \$5.00.



DWARF PROLIFIC BLACK WAX.

## DWARF GREEN PODDED.

### EARLIEST MARKET.

This is well named, being the earliest bean in existence, and therefore very profitable to the market gardener, and desirable to the private gardener as well. The pods are long, broad, green and very showy, reaching maturity in 30 days from germination, and the habit of vine very productive.

Pint, 25c. Quart, 30c. Peck, \$1.75. Bushel, \$6.00.

**EXTRA EARLY BOUNTIFUL (Flat Green Pod).**—A prolific and continuous bearer. The first in the spring, the last in the fall. Absolutely stringless, very tender, and of delicious flavor.

Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.50.

**BLACK VALENTINE.**—This excellent extra early variety has perfectly round, straight pods of excellent quality. It is suitable both for early and late planting, being extremely hardy. A most desirable sort for the market gardeners, owing to its enormous yielding qualities, large and handsome appearance.

Pint, 15c. Quart, 30c. Peck, \$1.75. Bus., \$6.00.

**EXTRA EARLY REFUGEE.**—It is similar in every respect to the ordinary Refugee, but is nearly two weeks earlier. It is enormously prolific, and from its earliness is almost certain to produce a crop, no matter how unfavorable the season. Is rapidly becoming a favorite sort, as it matures equally early with Red Valentine, and has that beautiful silvery green color in the pods that is so much desired.

Pint, 15c. Quart, 20c. Peck, \$1.25. Bushel, \$4.00.

**REFUGEE, OR 1000 TO 1.**—A medium to late variety, very productive and largely grown for pickling; handsome and tender pods.

Pint, 15c. Quart, 20c. Peck, \$1.25. Bushel, \$4.00.

**EARLY MOHAWK.**—Pint, 15c. Quart, 20c. Peck, \$1.25.

Bushel, \$4.00.

**DWARF HORTICULTURAL (Cherry).**—A very green podded sort, used as a shell bean, and for this purpose is one of the finest in general use; long a favorite with those who use a shell bean in a green state.

Pt., 10c. Qt., 25c. Pk., \$1.25. Bus., \$4.75.

**BEST OF ALL.**—One of the most valuable green podded sorts for family or market use.

The pods are six inches long, very fleshy, succulent, stringless, and of rich flavor; are produced early and abundantly.

Quart, 25c. Peck, \$1.25. Bus., \$4.75.

**LONG YELLOW 6 WEEKS.**—Very early, hardy bean.

Pint, 15c. Quart, 25c. Peck, \$1.25. Bus., \$4.00.

**G. & T. CO.'S EXTRA EARLY RED VALENTINE.**—Ten

days earlier than the ordinary Red Valentine Bean, and therefore the best for truckers and market gardeners. It is without doubt the very best and earliest green Snap Short Bean.

The habit of the vine is dwarfed and very uniform. Color of light green, round, curved, succulent, prolific, continuing long in edible condition.

Pint, 15c. Quart, 25c. Peck, \$1.25. Bushel, \$4.00.

**EARLY RED VALENTINE.**—Pint, 10c. Quart, 20c. Peck,

\$1.00. Bushel, \$3.50.

**BURPEE'S NEW STRINGLESS GREEN POD.**—One of the

earliest varieties, pods round and full, absolutely stringless, and of beautiful fleshy appearance; quality excellent. The only green-pod bean of which the pods never develop any strings.

Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.50.

**GIANT STRINGLESS GREEN POD.**—Resembles very much

the old Valentine. The plants are of strong growth, very productive; pods 5 inches long, light green, slightly curved, very meaty, brittle and stringless at all stages and of mild flavor.

Pint, 15c. Quart, 25c. Peck, \$1.25. Bushel, \$4.50.

**WHITE MARROWFAT.**—Extensively grown for sale as a dry bean for winter use.

Qt., 20c. Peck, \$1.00. Bus., \$3.75.

**WHITE NAVY, OR SMALL PEA BEAN.**—A well-known

variety for field culture; very prolific.

Quart, 20c. Peck, 90c. Bushel, \$3.25.

THE BUSH LIMA BEANS ARE RAPIDLY GAINING FRIENDS AND HAVE EVIDENTLY COME TO STAY.



BURPEE'S BUSH LIMA.

**BURPEE'S QUARTER CENTURY BUSH LIMA.**—A strain of the above, but an improvement. About 10 days earlier. Pint, 20c. Quart, 35c. Peck, \$1.85.

### POLE LIMA BEANS.

**FORD'S MAMMOTH POLE LIMA BEAN.**—The pods grow to an average length of 8 inches, are produced in great clusters, with from 5 to 7 beans per pod of most excellent quality for using either green or dry. The vines grow vigorously, setting the beans early at the bottom of the pole, and continue in bearing up to frost. Pint, 15c. Quart, 25c. Pack, \$1.50. Bushel, \$5.50.

**EXTRA EARLY JERSEY LIMA.**—This variety is 2 weeks earlier than other sorts: the pods are large and numerous, making it a very profitable sort to grow. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.00.

**SEIBERT'S LARGE EARLY.**—A very early and prolific strain of the Large Lima. The vines begin bearing pods considerably earlier than the regular strains of Large Limas. While the pods are only of medium length, they are well filled, containing 3 and 4 large, fleshy beans, which are extremely tender and fine in flavor. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.00.

**EXTRA LARGE LIMA.**—This is a splendid sort, and takes a leading place with growers, because of its many excellent qualities. As a shell bean surpasses all in quality, and is the favorite with most people. Pint, 15c. Quart, 25c. Peck, \$1.75. Bushel, \$5.50.

**DREER'S IMPROVED OR CHALLENGE POLE LIMA.**—This popular bean is considered by many growers superior to all others in quality and productiveness. When green it is as large as the Large Lima, thicker, sweeter and more tender and nutritious, remaining green in the pod for a long time after maturing. Pint, 15c. Quart, 30c. Peck, \$1.75. Bushel, \$5.50.

**KING OF THE GARDEN LIMA.**—This bean has met with enormous sales the past few seasons. They are vigorous growers, setting their beans early at bottom of pole, producing continuously to the end of the season. They are more prolific than the ordinary Lima, bearing pods 5 to 7 inches long, in clusters of 4 and 5, with 5 or 6 beans in a pod. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.50.

**LARGE WHITE LIMA.**—One of the best of the pole beans, either green or dry. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.00.

**CAROLINA, OR SIEVA.**—A seedling variety of Large White Lima, with small pods, usually about 2 inches long. A little earlier and harder. Pint, 15c. Quart, 25c. Peck, \$1.40. Bushel, \$5.00.

### POLE BEANS.

SET THE POLES 3 OR 4 FEET APART AND PLANT 6 TO 8 BEANS, WITH THE EYES DOWNWARD, AROUND EACH POLE, THINNING TO 4 HEALTHY PLANTS WHEN THEY ARE UP. THEY REQUIRE THE SAME SOIL AND TREATMENT AS THE DWARF VARIETIES WITH THE EXCEPTION THAT THEY CRAVE STRONGER SOIL AND DO BEST IN A SHELTERED LOCATION.

**MARYLAND WHITE.**—This new White Pole Bean is destined to take its place as one of the best beans ever grown for general purposes. Its thick, meaty, green pods are very tender, rich in flavor, and produced in great abundance. It is equally valuable as a snap or shell bean. It has been grown in Maryland to a very limited extent for a few years, and those who have grown it once want it again. Pint, 15c. Quart, 30c. Peck, \$1.75. Bushel, \$6.00.

**LAZY WIFE.**—Large, pale green pods very thick-meated, stringless, rich, tender and buttery; ripens early; clings well to the pole; enormously productive; splendid either as a snap or shell bean. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.00.

**KENTUCKY WONDER, OR OLD HOMESTEAD.**—A very prolific sort, bearing its pods in large clusters; pods green, often reaching 9 or 10 inches in length, nearly round when young, and very crisp. Pint, 20c. Quart, 30c. Peck, \$1.65. Bushel, \$5.50.

**SPECKLED HORTICULTURAL, OR WREN'S EGG.**—An old favorite for both snap-shorts and dry beans. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.00.

**WHITE CHERRY.**—Great favorite. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.50.

**CREASE-BACK, OR FAT HORSE.**—A well-known and highly esteemed Southern variety. Very productive; forms full, round pods; fleshy; stringless and distinctly creased along its back; hence its name; especially valuable for its extreme earliness and habit of perfecting all pods at the same time. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.00.

**SOUTHERN PROLIFIC.**—A splendid, vigorous and productive variety. Pods in clusters, succulent and delicious; matures early; continues bearing until frost. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.00.

**SPECKLED CUT-SHORT, OR CORN-HILL.**—An old variety, very popular for planting among corn, and will give a good crop, without the use of poles; vines medium, with dark-colored, smooth leaves; pods short, cylindrical and tender. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.00.

**DUTCH CASE KNIFE.**—Vines moderately vigorous, climbing well; may be used for a corn-hill bean. Leaves large, crumpled; blossoms white; pods long, flat, irregular green, but becoming cream white; beans broad, kidney-shaped, flat, clear white; of excellent quality, green or dry. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.00.

WHEN BEANS ARE TO BE SENT BY MAIL, ADD FOR POSTAGE, 8c. PER PINT, 15c. PER QUART.

## BUSH LIMA BEANS.

FORD'S MAMMOTH.

KING OF THE GARDEN.

### DREER'S BUSH LIMA.

A dwarf variety of the Dreer's Improved Lima, which has been fixed in its character of a bush bean; it is very prolific, single plants often producing from 150 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima.

Pint.....	\$0.15
Quart.....	.30
Peck.....	1.65
Bushel.....	6.00

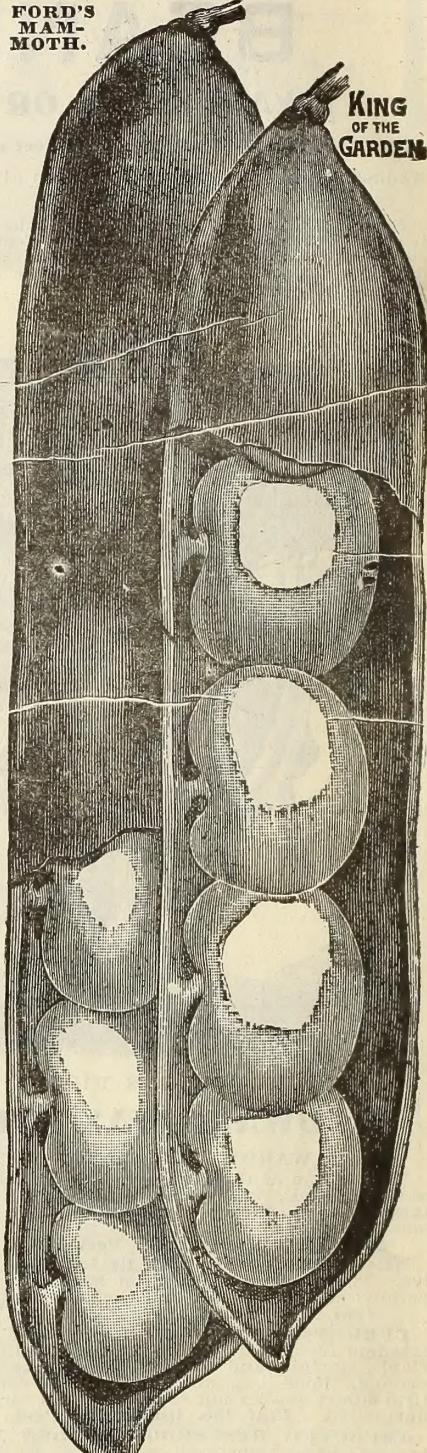
### HENDERSON'S DWARF LIMA.

These are very valuable because they do not need poles, and being so dwarf can be planted close together. They are very early and prolific, continuing to bear until frost.

Pint.....	\$0.15
Quart.....	.30
Peck.....	1.50
Bushel.....	5.50

### BURPEE'S BUSH LIMA.

The bushes grow 18 to 20 inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush, from 2 to 3 feet in diameter. It is an immense yielder, each bush bearing from 50 to 200 of the handsome large pods, well filled. Pints, 15c. Quart, 30c. Peck, \$1.50. Bushel, \$5.50.

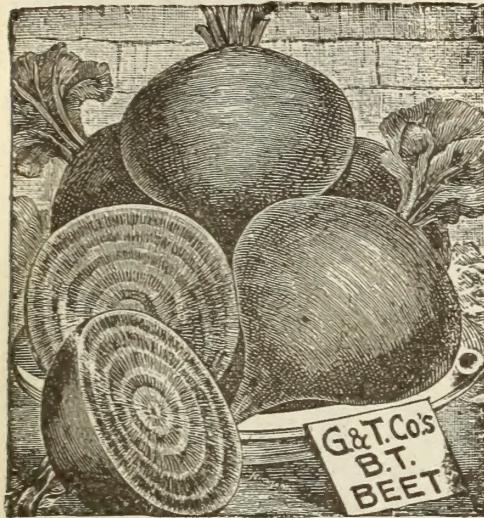


# BEETS.

One Ounce of Seed Will Sow One Hundred Feet of Drill.

**S**ELECT a deep, rich sandy loam, and manure with well decomposed compost or a good chemical fertilizer. Sow in drills, 14 to 16 inches apart, and cover 1 inch deep. When the young plants appear, thin to 4 or 5 inches apart. For early use, sow as soon as the ground can be worked in the spring; for autumn use, about the middle of May, and for winter use, during June or July, according to the variety—the long varieties requiring more time to mature than the round, early kinds.

## G. & T. Co.'s Early Blood Turnip Beets



**T**HIS is our **Special Stock** of Early Blood Turnip Beet, which we have been growing for a number of years, and which the market gardeners of Baltimore and other places prefer. It is of dark-red color, handsome shape and early. **Pkt., 5c. Oz., 10c. 1/4 lb., 15c. Lb., 50c.**

**SWISS CHARD.**—**Oz., 10c. Lb., 40c.**

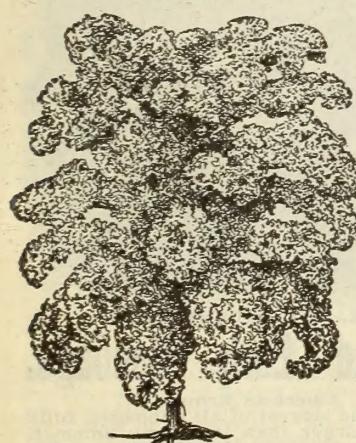
**BASSANO, or EXTRA EARLY TURNIP.**—Flesh white and rose; very sweet and tender. **Pkt., 5c. Oz., 10c. 1/4 lb., 15c. 1/2 lb., 20c. Lb., 35c.**

**EXTRA EARLY EGYPTIAN.**—This is a flat Beet, very early and deep-red color. Owing to the small top, it can be planted very close. **Pkt., 5c. Oz., 10c. 1/4 lb., 15c. Lb., 40c.**

**LARGE LONG BLOOD.**—A large and desirable late variety of deep-red color. **Pkt., 5c. Oz., 10c. 1/4 lb., 15c. Lb., 40c.**

**BALTIMORE EARLY MARKET.**

Its qualities are extra early, dark-red color, fitness of shape and small top. One of the most attractive varieties grown, and is specially desirable for hotbeds on account of its small top and close-growing habit. **Pkt., 5c. Oz., 10c. 1/4 lb., 15c. Lb., 50c.**



## BORECOLE.

This is often called Broccoli by market gardeners, but belongs to the Kale family. Very spreading in habit, and beautifully curled. Seed very scarce.

**Pkt., 5c. and 10c. Oz., 15c. 1/4 lb., 50c. Lb., \$1.50.**

### DETROIT DARK RED TURNIP BEET.

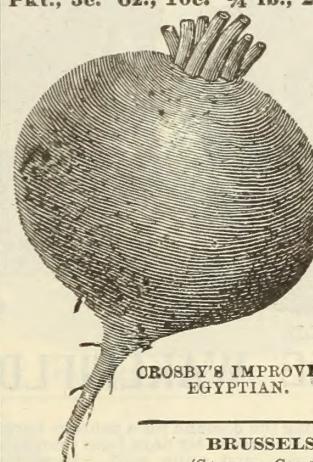
**T**HIS is one of the finest formed and handsomest colored Beets on the market. It is unsurpassed in the uniformity and beauty of the crop. It is exceedingly early, and produces more marketable specimens on the same acreage than any other variety. **Pkt., 5c. Oz., 10c. 1/4 lb., 15c. Lb., 40c.**

### EDMUND'S RED TURNIP.

The most uniform of all Turnip Beets. It is of handsome round shape, good marketable size, and deep-blood color. It has a small top, and may be planted close. **Pkt., 5c. Oz., 10c. 1/4 lb., 15c. Lb., 40c.**

### CROSBY'S IMPROVED EGYPTIAN BEET.

A very superior strain of the well-known Egyptian, carefully selected, blood color, quick, rapid growth. The shape is very desirable, as shown in the accompanying photograph, being not quite so flat as the ordinary Egyptian, nor so round as the Eclipse. It may be sown outside as late as July. **Pkt., 5c. Oz., 10c. 1/4 lb., 20c. Lb., 50c.**



CROSBY'S IMPROVED EGYPTIAN.

This extra early Beet is remarkable for its fine quality and rapid growth; is of deep red color and handsome shape.

As an early market sort it is unrivaled. It is, to a large extent, superseding the Egyptian, being earlier in development, more attractive in appearance, and of superior quality for the table.

**Pkts., 5c. and 10c. 1-4 lb., 15c. Lb., 40c.**

### BRUSSELS SPROUTS.

(German, Gruener Kopfkohl.)

**1 Oz. of Seed to 100-Yards of Row.**

A class of plants allied to the Cabbage family, producing a great number of small heads for sprouts on the main stem of the plant, which are used and prepared as greens. Plant in rich soil, in hills 2 feet apart each way. **Packets, 5c. and 10c. Ounce, 15c. 1-4 lb., 45c. Lb., \$1.60.**



BRUSSELS SPROUTS.

### BEETS FOR STOCK.

**SOW 4 POUNDS TO THE ACRE.**

**S**TOCK BEETS grow larger than any other Beets, and hence require more room. They should be sown from April to June, in drills 2½ feet apart, and the plants thinned to 12 to 15 inches in the row. The attention of farmers to the growing of Beets for stock-feeding has rapidly increased, but it should be grown more generally, and will show the results in the health and condition of the stock. It supplies good, rich food for cattle during the winter.

**CHAMPION YELLOW INTERMEDIATE, OR GATE-POST MANGOLD.**—One of the very finest Mangolds ever introduced, giving unbounded satisfaction wherever grown. With good cultivation will crop at the rate of 200 bushels per acre. **1/4 Ib., 10c. Lb., 25c. 5 lbs., \$1.00.**

**WHITE SUGAR BEET.**—A large-growing sort, and used for feeding stock. **1/4 Ib., 10c. Lb., 25c. 5 lbs., \$1.00.**

**LONG RED MANGOLD WURZEL.**—The well-known, large, long variety; grows well out of ground. Color light red. Very productive. **1/4 Ib., 10c. Lb., 25c. 5 lbs., \$1.00.**

**GOLDEN TANKARD MANGOLD.**—The best type of Mangold—small top, smooth, rich skin, broad shoulders, very solid-fleshed, golden-stemmed, heavy producer. **1/4 Ib., 10c. Lb., 25c. 5 lbs., \$1.00.**



## BROCCOLI

(German, Spargel Kohl.)

**1 Ounce of Seed to 100 Yards of Row.**

The Broccoli are closely allied to the Cauliflower family. They require similar cultivation and treatment to Cauliflower.

**EARLY PURPLE CAPE.**—Large, compact. **Pkt., 10c. Oz., 35c.**

**LARGE EARLY WHITE.**—Head white, like Cauliflower; the best. **Pkt., 10c. Oz., 35c.**

ONE OUNCE OF SEED  
TO 100 YARDS OF ROW.

# CABBAGE.

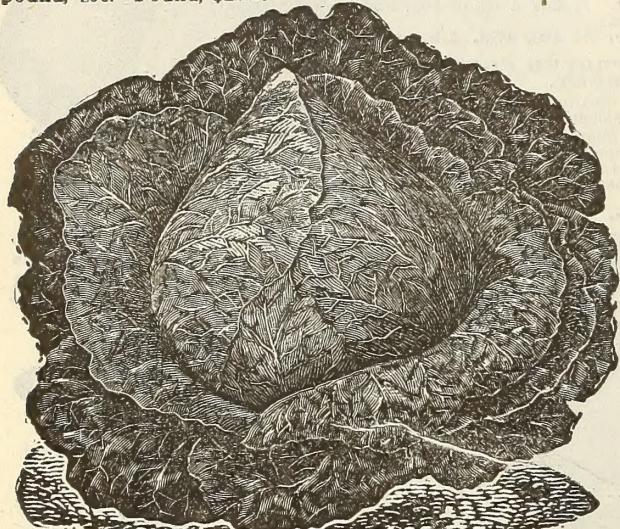
German, Kapfkoehl.

**C**ABBAGE must have good land; plow deep and fertilize liberally, as it is a strong feeder. The early sorts bear planting from 18 inches to 2 feet in the rows; the larger varieties from 2 to 3 feet in the rows, with the rows from 3 to  $3\frac{1}{2}$  feet apart, according to variety of Cabbage. It does not pay to buy cheap Cabbage Seed. Ours are American grown and from the best stock in the country. For early use, sow in a hot-bed in February or March, and set out to a cold-frame as soon as large enough. In April the plants may be set out in the rows. For late crop, sow in nursery bed in May or June, and transplant as soon as the plants are 5 or 6 inches high. The ground should be thoroughly cultivated every week until the plants meet in the rows.

**KING OF EARLIES.**—Our own introduction. American grown. An extra early variety, fully a week ahead of all other varieties in forming marketable heads; the heads are tall and slim and of rather small size, formed like a Wakefield. Habit, vigorous; short stem and proof against sun. Pkts., 5c. and 10c. Oz., 20c. 1-4 lb., 40c. Lb., \$1.50.

**EXTRA EARLY EXPRESS.**—Heads are comparatively thicker and less pointed than Jersey Wakefield and slightly later. Head softer, but stands shipping better. Pkts., 5c. and 10c. Oz., 15c.  $\frac{1}{4}$  lb., 40c. Lb., \$1.50.

**EARLY WINNINGSTADT.**—Head large, cone-shaped and solid. An old and popular sort. Pkts., 5c. and 10c. Ounce, 15c.  $\frac{1}{4}$  pound, 40c. Pound, \$1.25.



LARGE OR CHARLESTON WAKEFIELD.

## CHARLESTON, OR LARGE WAKEIFLD.

American Grown.

This is now a very popular market cabbage, fully meeting the demand for a cabbage having all the characteristics of the Jersey Wakefield, but larger. It is five to six days later than Early Jersey Wakefield. The heads are fully one-half larger, and quite solid. It is very compact in growth, and can be easily planted in rows two feet apart, and twenty inches in rows. One great advantage is, it does not burst open when ripe, like many other early sorts, and consequently can be left standing on the ground a long while without injury until a favorable opportunity for cutting. No market or private gardener desiring a cabbage of this kind should fail to plant this valuable sort. Pkts., 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 50c. Pound, \$1.75.

## Early Dwarf Flat Dutch.

American Grown.

An old Standard variety which stands the sun and produces fine large heads, coming in soon after the Wakefield. Packets, 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 50c. Pound, \$1.50.

## Henderson's Early Spring.

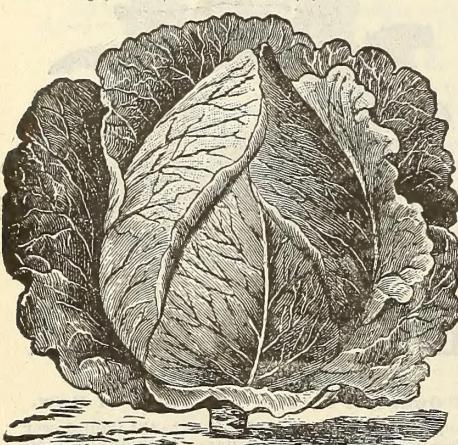
An extra early round-headed cabbage of the early summer type. Packet, 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 60c. Pound, \$2.00.

**LARGE EARLY YORK.**—American Grown.—One of the earliest. Forms a medium size, pointed head. Packets, 5c. and 10c. Ounce, 15c.  $\frac{1}{4}$  pound, 40c. Pound, \$1.25.

## SELECT EARLY Jersey Wakefield.

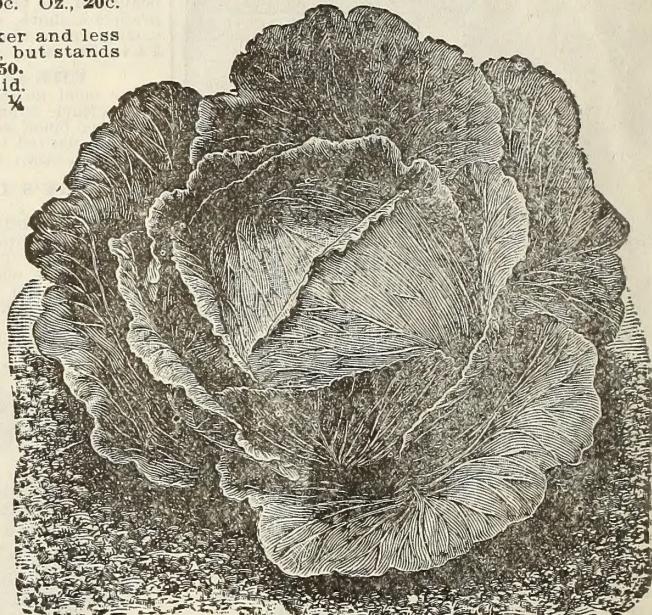
American Grown.

The very best early cabbage, and grown more extensively by market gardeners than any other variety. It is early, the heads are pyramidal in shape, very large and solid, and having but few outside leaves, the plants can be set close together. We secured our seed from a grower of the best Wakefield Cabbage in the country, and it is giving good results wherever it is used, so much so that our sales of this sort are rapidly increasing each year. The demand for this sort has brought on the market inferior stock at a low price, but when select stock such as we offer is used, it cannot fail to give satisfaction. Packets, 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 50c. Pound, \$1.75.



EARLY JERSEY WAKEFIELD.

brought on the market inferior stock at a low price, but when select stock such as we offer is used, it cannot fail to give satisfaction. Packets, 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  pound, 50c. Pound, \$1.75.

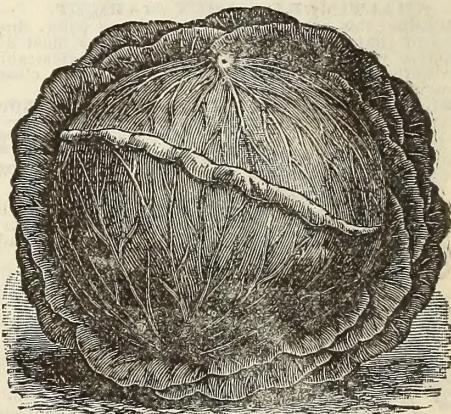


EARLY SUMMER CABBAGE.

## LARGE EARLY SUMMER.

American Grown.

One of the earliest of the summer varieties. Heads large and flat; short stemmed, few outside leaves, uniform in character, and about ten days later than the Wakefield. It is very popular with the truckers. Packets, 5c. and 10c. Ounce, 15c.  $\frac{1}{4}$  pound, 40c. Pound, \$1.25.



EARLY "ALLHEAD."

## All-Head Early Cabbage.

American Grown.

This is the largest of all Cabbages, fully one-third larger than the Early Summer, therefore more profitable to the market gardener. It is the nearest approach to a thoroughbred Cabbage of any variety, both in size and uniform development. As the Allhead comes in quicker than any of the other flat cabbages, it is consequently more tender. It is also valuable for a late or winter cabbage. Packets, 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.75.

## CABBAGE—Continued.



NEW EARLY CABBAGE.

**NEW EARLY.**—American grown. This is one of the finest large early cabbages grown. Forms solid, compact heads, and leaves grow close to the head, thus allowing many more cabbages to be grown on the acre than any other sort. One of its most striking features is its earliness. It heads so rapidly that the worms can't hurt it. Pkts., 5c. and 10c. Oz., 15c.  $\frac{1}{4}$  lb., 40c. Lb., \$1.25

### SUCCESSION CABBAGE

A fine early variety, coming in a few days later than Early Summer, but it is immeasurably superior to that variety; it is nearly double the size, and is absolutely true to its type under all conditions. In addition to this, it has no tendency whatever to run to seed. It is one of the finest sorts in existence today; whether for medium early, main crop or late use, it has no superior. It is so finely bred and so true to type that in a field of twenty acres every head appears alike. We can recommend it either for the market gardener, trucker or private planter, as it is a perfect Cabbage in every respect, not only being of the largest size, but of handsome color and of the finest quality. It is probably the safest variety for an amateur to plant, as it does well at all seasons, and one is almost sure of getting a crop, no matter when it is planted. Packets, 5c. and 10c. Ounce, 20c.  $\frac{1}{4}$  lb., 60c. Lb. \$2.00.



SUCCESSION CABBAGE.



BOSS FLAT DUTCH—LATE CABBAGE.

### LATE OR AUTUMN CABBAGE.

**BOSS FLAT DUTCH CABBAGE.**—Am. grown. In again calling the attention of market gardeners and truckers to this magnificent Cabbage, we would say that it has fully met the claims we made for it upon its introduction. When we ask our customers how they like it, their answer is "splendid" or "elegant," everything heads; "you can scarcely find any that don't head." The heads are large, hard, thick and flat, the leaves lapping across the center, making it the most desirable winter variety in cultivation. Try it and be convinced of its superior quality.

Pkts., 5c. and 10c. Oz., 15c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.50.



DANISH BALL HEAD CABBAGE.

**LOUISVILLE DRUMHEAD.**—American grown. This is the most popular intermediate or second early with market gardeners around Louisville and the Southwest. It comes off medium early, withstands heat to a remarkable extent, heads large, solid and uniform in size and color. We can recommend this sort very highly for the Southern and Middle States.

Pkts., 5c. and 10c. Oz., 15c.  $\frac{1}{4}$  lb., 40c. Lb., \$1.25.

**SUREHEAD.**—Am. grown. This popular cabbage is rightfully named Surehead, as it never fails to make a fine, large, solid head, with few outer leaves. It is a strong, vigorous grower, and very uniform in size and color. Always brings the highest price in our markets.

Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.75.

**ALL SEASONS.**—Am. grown. This forms a fine, large head, of superior quality, nearly as early as the Early Summer. Suitable for planting at any season.

Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.75.

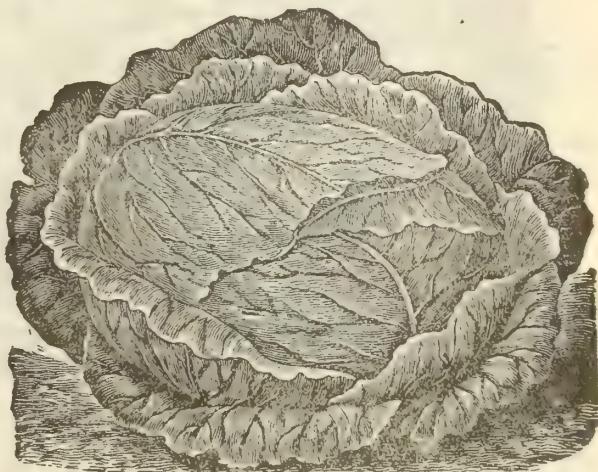
**DANISH BALI HEAD.**—This most excellent variety of Cabbage, coming from Denmark, has grown very rapidly into favor with both market and private gardeners. It is a large, round, solid heading, medium early variety; a very sure header, having few loose leaves, consequently can be planted very close together. Although a medium early, can also be grown for a fall and winter crop, being one of the best keepers. Very popular in the Philadelphia, New York and Boston markets.

Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.50.

### FOTTLER'S EARLY DRUMHEAD OR SHORT STEM BRUNSWICK CABBAGE.

In its improved type, this is a very fine summer or early fall variety. The plants are of dwarf, compact growth, the solid, flat heads resting on the soil, while the few outer leaves grow closely about the heads. The foliage is a light bluish green in color. The heads are very flat, quite thick through, uniformly "hard and solid" and considerably earlier than the ordinary *Flat Dutch* strains. Good both for intermediate and winter use.

Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.50..



PREMIUM LARGE FLAT DUTCH—LATE CABBAGE.

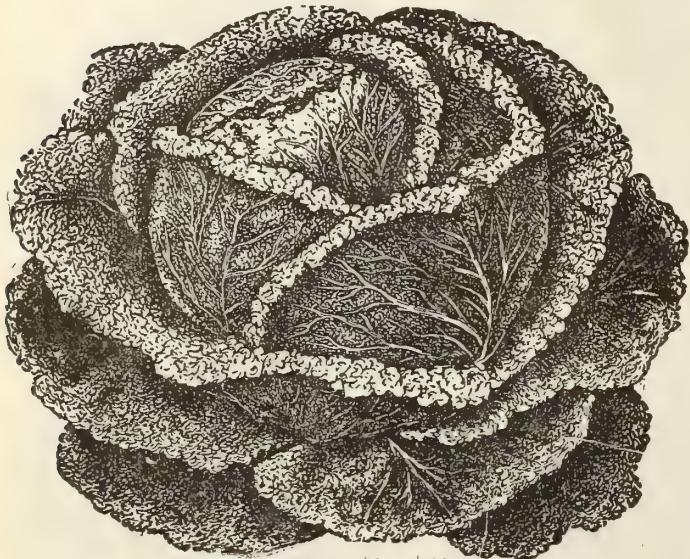
### PREMIUM LARGE LATE FLAT DUTCH CABBAGE.

Am. grown. Large and excellent for winter, very extensively grown. The head is broad, thick and flat, well covered in by leaves lapping across the center, outside leaves feathered to the base of the leaf stem.

Pkts., 5c. and 10c. Oz., 15c.  $\frac{1}{4}$  lb., 40c. Lb., \$1.25.

SPECIAL PRICES TO GARDENERS AND FARMERS, IN LARGE QUANTITIES.

# LATE CABBAGES—Continued.



DRUMHEAD SAVOY

**LARGE LATE AMERICAN DRUMHEAD** (American Grown).—One of the largest, most solid and best keeping late varieties. This variety seldom fails to head, and is of good quality.

• Packets, 5c. and 10c. Oz., 15c.  $\frac{1}{4}$  lb., 40c. Lb., \$1.25.

**WORLD-BEATER, or AUTUMN KING.**—This is a very superior late cabbage. The large, broad heads are very thick through, slightly rounded at the top, fine grained and tender, has a short stalk, green color, and one of the best keepers we know, and is a rapid grower.

• Packets, 5c. and 10c. Oz., 15c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.50.

**RED DUTCH.**—The head is round, large, solid and a deep red color, the best of the red cabbages.

• Packets, 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.50.

## Perfection Drumhead Savoy.

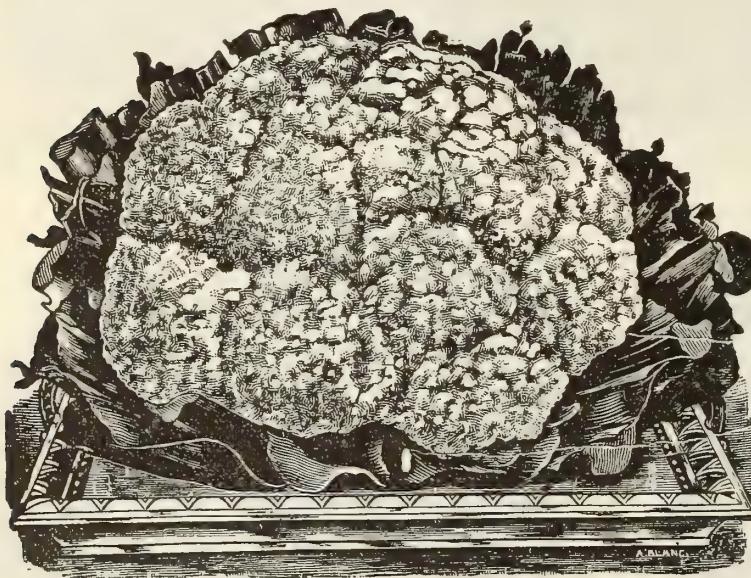
American Grown.

This is without any exception the finest stock of Savoy cabbage to be found anywhere. The heads are large and solid, the leaves beautifully curled, and in tenderness and flavor it is almost equal to cauliflower, while its keeping quality is first class. To say that our market gardeners are pleased with it is putting it mild; they are enthusiastic over it, as they find it so much superior to the old-time Savoy. It is specially adapted to private use, as when grown in the fall and allowed to be touched by frost it is one of the most delicious of all vegetables. • Packets, 5c. and 10c. Oz., 15c.  $\frac{1}{4}$  lb., 40c. Lb., \$1.25.

**Georgia Collards.** Called the Cabbage Collard on account of its close bunching growth. The plant produces center leaves generally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the finest quality.

• Packets, 5c. and 10c.  $\frac{1}{4}$  lb., 20c. Lb., 60c.

## G. & T. Co.'s Large Gilt Edge Snowball Cauliflower



or straw, it would keep the soil moist, and the plants would not suffer enough to plant out not later than the middle of April; the late kinds may be planted out same time as for Cabbage.

## CORN SALAD.

Three Ounces of Seed to 100 Feet of Row.

A favorite salad plant, and very hardy. Sow in August or September, and protect with leaves during the winter; it can be gathered in the spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 35c. 5 lbs., \$1.50.



## Cress, or Pepper Grass.

Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short intervals throughout the season.

**CURLED**—Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 50c.

**WATER CRESS.**—Water Cress may be grown along the margin of running streams, ditches or ponds, and has a ready sale in the hotels and markets.

Pkts., 5c. and 10c. Oz., 30c.  $\frac{1}{4}$  lb., \$1.00. Lb., \$3.00.

GRIFFITH & TURNER CO.

# G. & T. CO.'S CARROTS.

1 OZ. OF SEED TO  
100 FEET OF ROW.

CARROTS thrive best in rather a light, rich loam. The ground should be well manured with fine well-rotted or composted manure, and be thoroughly worked quite deep. Sow from middle of April to middle of May, in rows 14 inches apart, and thin the plants to 5 or 6 inches in the row. For late crops sow in June or July. An important point is to tread the rows firmly after sowing. For field culture, Carrots should be sown in drills 3 to 3½ feet apart, so as to cultivate with horse.



DANVERS.

**EARLY SCARLET HORN.**—Blunt-rooted, early, good. Favorite sort for early crop.  
Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 75c.

**CHANTENAY.**  
Very productive; has an extra large shoulder, is easily dug, and is in every way desirable. It is very smooth, fine in texture, and of a beautiful, rich orange color. Well worthy of a thorough trial.  
Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 75c.



CHANTENAY.

**WHITE SOLID.**  
A large standard sort. One of the best of the large growing sorts.

Pkts., 5c. and 10c. Oz., 15c.  
¼ lb., 40c. Lb., \$1.50.

NEW ROSE.

In England the Pink or Red Celeries are much more largely used than the white varieties, and we wonder they are not more grown in this country. They possess many advantages over the white, being harder, more solid and better keepers.

Pkt., 10c. Oz., 15c.  
¼ lb., 40c. Lb., \$1.50.

**CELERY SEED FOR FLAVORING.**  
This seed is used for flavoring pickles, soups, etc.

Pkt., 5c. ¼ lb., 10c.  
½ lb., 15c. Lb., 25c.

## IMPROVED LONG ORANGE.

Deep orange color, long, smooth, fine for either garden or field culture. All who have cattle should raise a surplus of this Carrot for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color. Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 70c.

## DANVERS.

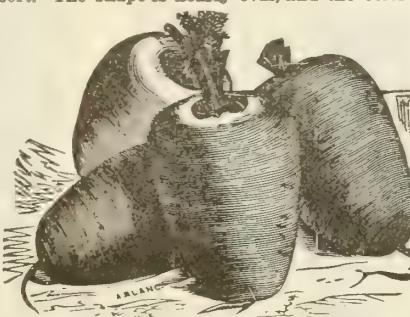
A decided acquisition of the half-long type, broad-shouldered, cylindrical, admirable in color, fixed in habit, a wonderful producer.

Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 70c.

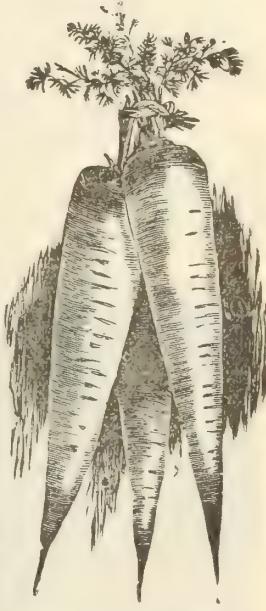
## GUERANDE, OR OX HEART.

A new French variety, intermediate in length, of fine quality; excellent table sort. The shape is nearly oval, and the color and quality all that can be desired. No market gardener should be without it.

Pkts., 5c.  
and 10c.  
1-4 lb., 20c.  
Lb., 75c.



GUERANDE, OR OX HEART.



IMPROVED LONG  
ORANGE.

## CELERY.

German, Celerie.

1 OZ. WILL PRODUCE 2000 PLANTS.

### PARIS GOLDEN CELERY.

(French Stock.)

THIS cannot be too highly recommended, as after being thoroughly tested it has fulfilled all that has been claimed for it. It is decidedly the very best and most profitable Celery in cultivation; it is very early, and entirely self-blanching. The beautiful appearance of the plant, its close habit, compact growth, straight, vigorous stalks, solid, crisp, brittle ribs, fine quality and delicious flavor commend it to all lovers of Celery. No variety can surpass, if, indeed, equal the Paris Golden Self-Blanching in its striking appearance and delicious flavor. Our stock of this variety has been giving the market gardeners the very best results for several years.

Pkts., 5c. and 10c. Oz., 30c.  
¼ lb., \$1.00. Lb., \$3.50.

### GOLDEN SELF-BLANCHING CELERY. (American Stock.)

This is a selection from the French stock grown here, and is a favorite sort with market gardeners, being very largely used.

Pkts., 5c. and 10c. Oz., 25c.  
¼ lb., 90c. Lb., \$3.00.

### ROSE-RIBBED PARIS SELF-BLANCHING.

This is a sport of the Golden Self-Blanching, identical in habit, growth, early maturity, and as easily blanched. The stalks, however, are naturally quite heavily tinted with red, so that when blanched they show a distinct pink line in the ribs, contrasting finely with the rich golden yellow.

Pkt., 10c. Oz., 25c. ¼ lb., 75c.  
Lb., \$2.50.

### IMPROVED BOSTON MARKET.

This is a decided improvement on the old Boston Market, being earlier, larger in size, and of more vigorous growth.

Pkts., 5c. and 10c. Oz., 15c.  
¼ lb., 40c. Lb., \$1.25.



PARIS GOLDEN CELERY.

# CELERY.

German,  
Celerie.

CONTINUED.

1 Oz. Will Produce 2000 Plants.

**P**LANT SEED in hot-bed or very early in open ground. Transplant 4 inches apart when 3 inches high, in rich soil, finely pulverized; water and protect until well rooted. In June or July transplant into rows 3 to 4 feet apart, either on surface or well-manured trenches a foot in depth, half filled with well-rotted manure. Set the plants from 6 to 8 inches apart. To blanch, draw earth around the plants from time to time, taking care not to cover the top of the centre shoots.

#### WINTER QUEEN CELERY.

It is, without doubt, the most valuable variety of Celery for winter and spring use ever introduced. It is also much stouter, thicker and heavier, with double the amount of heart of any known Celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream white. Ribs perfectly solid, crisp and of delicious nutty flavor.

Pkt., 10c. Oz., 15c. 1-4 lb., 50c. Lb., \$1.50.

#### PINK PLUME.

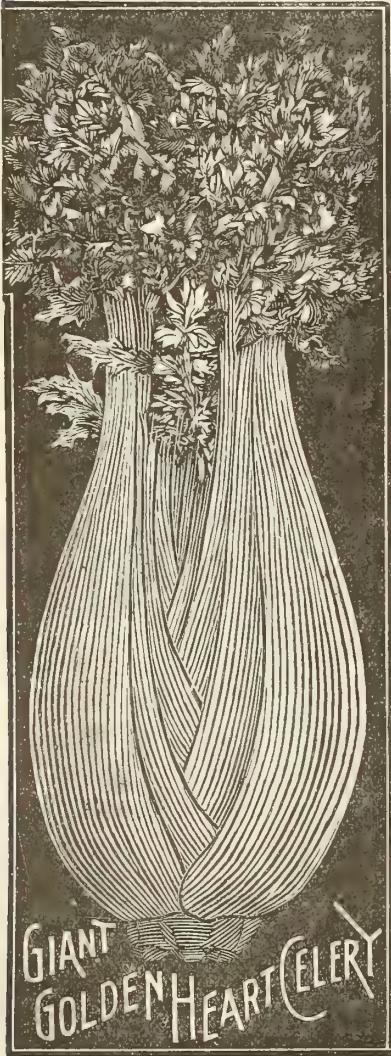
This is identical with the White Plume, but with the added merit of the stalks being exquisitely suffused with pink, and possessing the crispness, rich, nutty flavor and long-keeping qualities for which red Celeries are noted.

Pkt., 10c.  
Oz., 20c.  
1-4 lb., 50c.

#### PERLE LE GRAND.

The new Perle le Grand has a beautiful, full golden heart, and rich, nutty flavor. On the market stall it is extremely showy and salable, a single plant making a good-sized bunch and surpassing all other sorts in weight. It is not only a good early Celery, being among the first fit to use, but as a winter keeper, remaining, when properly trench, in perfect condition away into the spring.

Pkt., 10c. Oz., 15c. 1-4 lb., 40c. Lb., \$1.25.

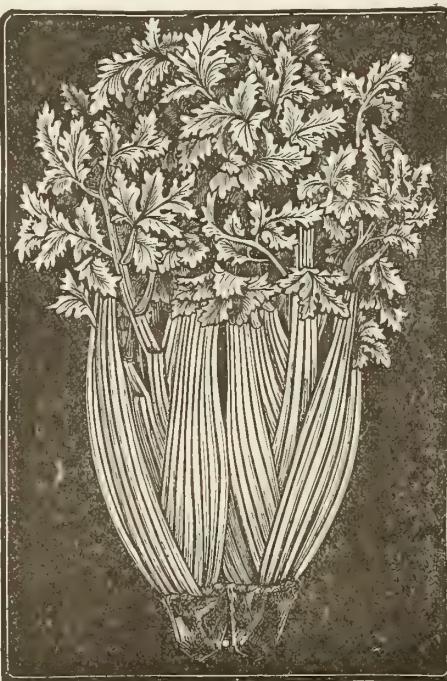


GOLDEN HEART, OR GOLDEN DWARF CELERY.

THIS old standard variety still holds a high place in the estimation of market gardeners, and is largely used, always giving satisfaction. A showy sort, solid, of fine flavor and a good keeper.

Pkts., 5c. and 10c.

Oz., 15c. 1/4 lb., 40c. Lb., \$1.25.



WHITE PLUME.

AN EARLY, handsome, self-bleaching variety, growing in popularity every year. Like the Golden Self-Blanching, it requires very little earthing up to blanch it, and as a Celery for fall and early winter use it is unsurpassed. Pkts., 5c. and 10c.

Oz., 20c. 1/4 lb., 60c. Lb., \$1.75.

# CELERIAC.

OR TURNIP ROOTED CELERY.

#### NEW APPLE SHAPE.

Small foliage, large, round, and smooth.

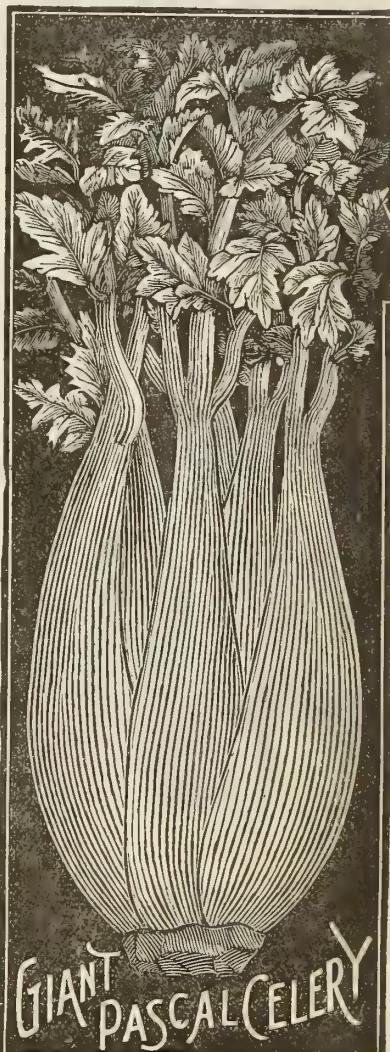
Pkt., 5c.  
and 10c.  
Oz., 15c.  
1-4 Lb., 40c.  
Lb., \$1.50.



LARGE SMOOTH PRAGUE.

The largest, smoothest and best of the Celeriacs. Pkts., 5c. and 10c.

Oz., 15c. 1/4 lb., 40c. Lb., \$1.25.



A SELECTION from the well-known Self-Blanching Celery. It partakes of the best qualities of that variety, is somewhat larger, and an excellent keeper. It is of fine, nutty flavor, being entirely free from any bitter taste. It grows about 2 feet high. The stalks are very broad, thick and crisp: the width and thickness of these are distinctive features of this variety.

Pkts., 5c. and 10c.

Oz., 15c. 1/4 lb., 50c. Lb., \$1.50.

**CAUTION.** Sweet Corn in bulk, even after being thoroughly cured, will often gather moisture and spoil, particularly if it has been exposed to a low temperature. To prevent this it should be taken out of the bag as soon as received and spread in a dry place.

## SWEET OR SUGAR CORN. FOR TABLE USE.

WHEN CORN IS WANTED BY MAIL, ADD 8 CENTS PER PINT TO PAY POSTAGE.

**CULTURE.**—Sugar Corn may be planted in rows 3 to 4 feet apart, and the seeds placed about 8 inches apart in the rows, or planted in hills 3 to 4 feet apart each way, according to variety grown or richness of soil. Do not let more than three plants remain in each hill. It can be planted in this vicinity from first of May to last of July for succession of crop. By planting every two weeks a family may have good corn throughout the whole season.

### FIRST EARLY VARIETIES.

#### EXTRA EARLY BALTIMORE.

The hardest and earliest variety for table use; it can be planted earlier than any other, but is not a sweet corn; white indented grains and short ears. Ear, 5c. Doz., 50c. Pt., 25c. 2 Qts., 40c. Peck, 75c. Bus., \$2.25.

**G. & T. CO.'S NEW 60-DAY CORN.**—The largest extra early corn grown. As early as Extra Early Adams, but grows larger ears. Ear, 5c. Doz., 40c. Pt., 10c. Qt., 20c. Peck, 60c. Bus., \$2.00.

**EXTRA EARLY ADAMS.**—Ear, 5c. Doz., 25c. Pt., 10c. Qt., 15c. Peck, 50c. Bus., \$1.75.

**EARLY ADAMS.**—A favorite in the South. Ear, 5c. Doz., 25c. Pt., 10c. Qt., 15c. Peck, 50c. Bus., \$1.75.

**EARLY BURLINGTON HYBRID.**—Not a true sugar corn, but a hybrid or mixture between the sugar corn and the Adams Early, being as early as Adams, but having a larger ear. It closely resembles the sugar corn. Pt., 10c. Qt., 25c. 2 Qts., 45c. Peck, 75c.

**NINETY-DAY CORN (Red Cob).**—This is an elegant corn for truckers and market gardeners, as it is as good seller as green corn, and if not used as green corn makes a good variety for feeding purposes. It may be planted for early crop and at intervals until the middle of July. Many truckers use it for their late planting, as it produces a very sure crop. Qt., 15c. 2 Qts., 25c. 4 Qts., 40c. Peck, 50c. Bus., \$1.50.

### MEDIUM EARLY VARIETIES.

#### Sweet or Sugar.

**PREMO.**—The best early sweet corn on the market. A genuine sweet corn as early as the Adams, Extra Early, and larger than any other early variety. The quality is the best, ears measuring 7 to 9 inches long, being well filled to the end. Generally bearing two ears to the stalk. Pt., 15c. Qt., 25c. Peck, 90c. Bus., \$3.00.

**CORY.**—An early variety red cob. Pt., 10c. Qt., 20c. Peck, 90c. Bus., \$3.00.

**FIRST OF ALL.**—A selection from the Cory, the ears about the same size as the Cory, lighter in color and earlier. Pt., 15c. Qt., 25c. Peck, 90c. Bus., \$3.00.

**WHITE CORY.**—An early variety, with good-sized ears and large kernels. Qt., 20c. Peck, 90c. Bus., \$3.00.

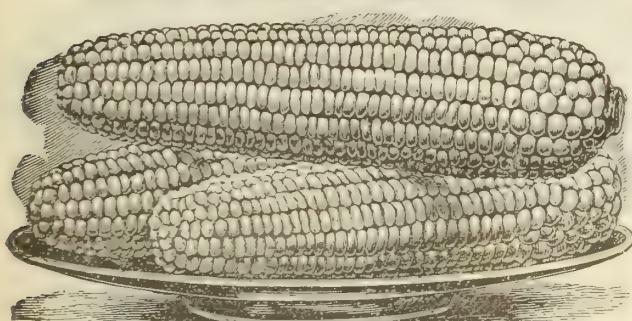
**STABLER'S EARLY.**—Of larger size than usual for the early kinds. It is remarkable for the fine flavor and sweetness, and is a desirable gardeners' and canning variety. Pt., 10c. Qt., 20c. Peck, 75c. Bus., \$2.50.

**CROSBY'S EXTRA EARLY.**—An early market variety, very productive; ears rather short and rich, sugary flavor. Pt., 10c. Qt., 20c. Peck, 75c. Bus., \$2.50.

**EARLY MINNESOTA SUGAR.**—One of the first early among sugar corn. Qt., 20c. Peck, 90c. Bus., \$3.00.

**BLACK MEXICAN SUGAR.**—The black corn is especially rich in sugary qualities. Qt., 20c. Peck, 90c. Bus., \$3.00.

### MAIN CROP VARIETIES.



STOWELL'S EVERGREEN.

**STOWELL'S EVERGREEN.**—So well known that it scarcely needs description. Excellent; keeps green till cold weather; ears large. One of the best. Ear, 5c. Doz., 40c. Pt., 10c. Qt., 20c. Peck, 75c. Bus., \$2.50.

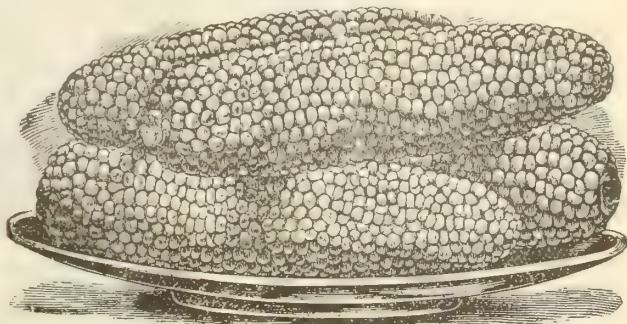
**EARLY MAMMOTH.**—A splendid market sort, producing large, handsome ears, grain large, white and sweet. Fills out well at the end. Ear, 5c. Doz., 40c. Qt., 20c. Peck, 75c. Bus., \$2.75.

### GERMAN, WELSCHKORN.

### MAIN CROP VARIETIES—Continued.

**HICKOX.**—A very handsome and excellent variety of sugar corn; large, white grain and sweet. Ear, 5c. Doz., 40c. Qt., 20c. Peck, 75c. Bus., \$2.50.

**IMPROVED NE PLUS ULTRA.**—Early, good-sized ears and deep grain. Very productive, some stalks yielding four ears and an average crop running as high as three ears to the stalk. Pt., 10c. Qt., 20c. Peck, 75c. Bus., \$2.50.



COUNTRY GENTLEMAN.

**COUNTRY GENTLEMAN CORN.**—This is the sweetest and most deliciously-flavored of all sugar corn. It is the finest variety for the table, and will delight the most fastidious epicure. It produces three to four ears to the stalk, and retains its greenness longer than other sorts. Pt., 10c. Qt., 20c. Peck, 75c. Bus., \$2.75.

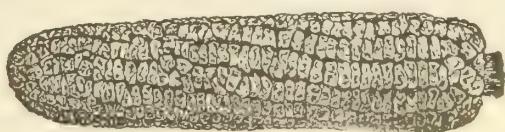
**LATE MAMMOTH.**—The largest variety grown; very fine for market purposes. Ear, 5c. Doz., 40c. Pt., 10c. Qt., 20c. Peck, 90c. Bus., \$3.00.

**Egyptian, or Washington Market.**—A large variety, somewhat resembling the Evergreen; flavor peculiarly rich and sweet, and of superior quality; fine for market. Ear, 5c. Doz., 40c. Pt., 10c. Qt., 20c. Peck, 75c. Bus., \$2.75.

**ZIGZAG EVERGREEN.**—This is one of the sweetest and best late sweet corn, not even excepting the celebrated Country Gentleman and Shoe Peg. The ears resemble Stowell's Evergreen in size and shape, except that the kernels are placed irregularly or zigzag upon the cob, which is always an indication of great sweetness in any variety of sugar corn. Pt., 10c. Qt., 20c. Peck, 90c. Bus., \$3.00.

**KENDALL'S EARLY GIANT.**—The largest early sweet corn known, and is very productive. Pt., 10c. Qt., 20c. Peck, 90c. Bus., \$3.00.

**SUGAR CORN.**—For fodder. Write for Prices.



TRUCKERS' EARLY CORN.

**TRUCKERS' EARLY SUGAR CORN.**—This is the most desirable variety of sugar corn for truckers and gardeners to plant early. As its many excellent qualities are becoming generally known, it has come to be one of the standard sorts. It is ten days earlier than Evergreen, very productive, growing two to four ears to the stalk. The ears set low, are large and well filled, the grain long and narrow, similar to Evergreen, but smaller. It is one of the most productive varieties in cultivation. Ear, 5c. Doz., 50c. Pt., 15c. Qt., 25c. Peck, 90c. Bus., \$3.00.

**NEW GOLDEN BANTAM SUGAR CORN.**—The earliest and best of sugar corns. It is of golden color and delicious flavor, with the sweetness of honey; can be planted earlier than the other varieties of true sweet corn as it is very hardy. The stalks are dwarf in habit, growing about four feet high, producing two or three good ears, five to six inches long, well set from the ground. Pt., 15c. Qt., 30c. Peck, \$2.00.

1 Oz. Will Plant 50 Hills;  
2 Lbs. Will Plant an Acre.

# CUCUMBER.



## CUMBERLAND.

A new and distinct variety, said to have originated from crossing the Parisian Pickling and the Early White Spine. It certainly has the good qualities of each of these sorts. The fruits are large, symmetrical, dark green, covered with innumerable small white spines, and are of prime quality for slicing. The vine is vigorous, wonderfully prolific, and continues in bearing much longer than most sorts. Packet, 5c. Ounce, 10c.  $\frac{1}{4}$  pound, 25c. Pound, 85c.

## WHITE WONDER CUCUMBER.

The White Wonder surpasses the White Pearl both in handsome appearance and fine quality, while its strong, vigorous, extremely healthy habit of growth enables the vines to produce a large crop of perfect fruit even under adverse conditions. Its strong constitution is exceptional. The Cucumbers are thickly set throughout the length of the vine, and are remarkably uniform in color, shape and size. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 25c. Lb., 75c.

**EARLY GREEN PROLIFIC.**—A very productive variety, having fruits of good length and handsome form. Desirable for producing pickles of medium size and of fine quality when sliced for the table.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 75c.

**EXTRA EARLY WHITE SPINE.**—A strain of White Spine which has been improved through careful selection, with a view to use for forcing in hothouses and frames; also elegant for field culture. Our stock produces handsome, dark-colored fruits, which retain their color longer than other sorts.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 75c.

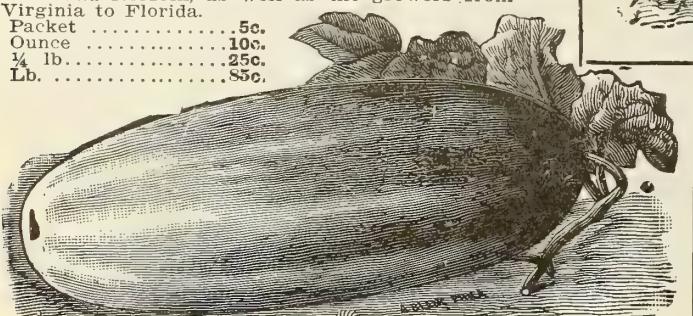
**ARLINGTON WHITE SPINE.**—A favorite extra early variety, of desirable size, handsome shape, dark-green color, holding its color longer than most others. Good shipper and sells well.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 75c.

## Baltimore White Spine.

This is the best Cucumber for early planting, because it will retain its green color longer than any other sort. It is of good size and shape, and the popular variety with truckers around Baltimore and Norfolk, as well as the growers from Virginia to Florida.

Packet .....	5c.
Ounce .....	10c.
$\frac{1}{4}$ lb. ....	25c.
Lb. ....	85c.

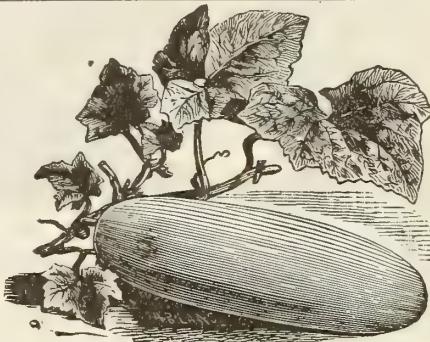


German,  
Gurke.

Prices Subject to Change  
Without Notice.

## CULTURE.

For very early Cucumbers sow the first of April in a hot-bed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground, in rich soil when danger of frost is over, or protect by hand-glasses. The vines require a warm location for early Cucumbers. Plant after the ground has become warm in hills 4 feet apart for the smaller varieties, and 5 feet for the larger sorts. For pickling sow from middle of June to last of July. Manure with ashes, fertilizer or some well-rotted compost, working the manure just under the surface. Sprinkle the vines with slug-shot, plaster of air-slaked lime, to protect from bugs. The Cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness.



## IMPROVED LONG GREEN.

Has long been a favorite with growers; dark green, firm and crisp. Superior for pickles and for market.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 75c.

### LONG GREEN TURKEY.

A very showy and excellent sort.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 25c. Lb., 85c.



### IMPROVED LONG GREEN.

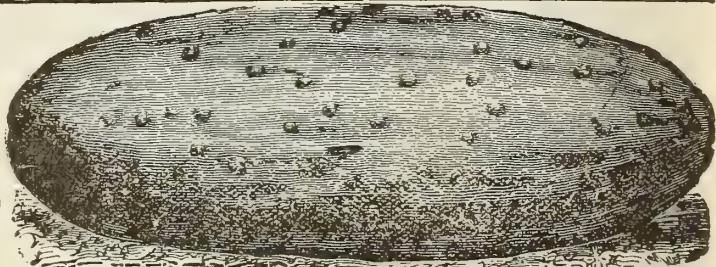
Has long been a favorite with growers; dark green, firm and crisp. Superior for pickles and for market.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 75c.

### LONG GREEN TURKEY.

A very showy and excellent sort.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 25c. Lb., 85c.



### JERSEY PICKLING.

This is the most popular sort with the market gardeners around Baltimore and Philadelphia for pickling. Said to grow better than any other variety.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 75c.

### CHICAGO PICKLING.

Very Popular with Chicago Market Gardeners, and Extensively Grown in that vicinity.

Fruit medium length, pointed at each end, with very large and prominent spines; color deep green.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 75c.

### GHERKIN, OR BURR.

Used For Pickles Only.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 35c. Lb., \$1.25.

# CUCUMBER.

CONTINUED.



## EVER-BEARING CUCUMBER.

This variety is unique, and will prove valuable both for the table and for pickling. Is of small size, very early, enormously productive, and extremely valuable as a green pickler. The peculiar merit of this new Cucumber is that the vines continue to flower and produce fruit until killed by frost, whether the ripe Cucumbers are picked off or not, in which respect it differs from all other sorts in cultivation.

Pkts., 5c. and 10c. Oz., 15c.  $\frac{1}{4}$  lb., 35c. Lb., 90c.

## Cool and Crisp.

This is the earliest and one of the most prolific pickling Cucumbers. The Cucumbers are straight, long, even and slim and of a dark color; it is very tender and crisp.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 75c.

## Early Cluster.

A short, prickly variety, bearing in clusters near the root. A good bearer.

Pkts., 5c. and 10c. Oz., 15c.  $\frac{1}{4}$  lb., 50c. Lb., 75c.

## Japanese Climbing Cucumber.

It bears abundantly throughout the season, while the climbing habit enables the hanging fruit to grow perfectly straight, from 12 to 16 inches in length; the Cucumbers are thick, tender and of delicate flavor; flesh white; skin dark green, turning to brown, and netted when ripe.

Pkt., 10c. Oz., 15c.  $\frac{1}{4}$  lb., 40c.

## English Forcing Cucumber.

Should be grown in hot-beds where the temperature does not fall below 65 degrees at night.

TELEGRAPH is the best. 25c. Packet.

## BALTIMORE



## EGG PLANT.

# Green Curled Endive.

## German. Endivien.

IS ONE OF THE BEST SALADS FOR FALL AND WINTER USE. One Ounce of Seed to 150 Feet of Row.



GREEN CURLED ENDIVE.

**GREEN CURLED.**—The best sort in use. Useful as a salad, and also used for garnishing.

Pkt., 5c. Oz., 15c.  $\frac{1}{4}$  lb., 40c. Lb., \$1.25.

## German. EGG PLANT. Eierpflanze.

**CULTURE.**—Sow the seed in hot-beds early in March. When three inches high, pot the young plants, using small pots, and plunge them in the same bed, so that the plants may become stocky. They can be planted out, from the pots, when the season becomes sufficiently warm, in May or June, or they can be transplanted into a second bed to make them strong, until the weather is warm enough to transplant, about three feet apart each way, in thoroughly worked and well-enriched soil. Draw the earth up to the stems when about a foot high. Egg Plant Seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth they seldom recover. Therefore repeated sowings are sometimes necessary. Care should be observed in cutting the fruit, so as not to disturb the roots of the plants. **One ounce will produce about 1,000 plants.**

**BALTIMORE EGG PLANT.**—This is decidedly the best and most profitable Egg Plant in cultivation. It is large, thornless, of beautiful shape and handsome purple color. We have never seen finer specimens of Egg Plant than those grown from our seed. When inspecting the field of Egg Plants growing for seed we were surprised at the regular size and uniform, handsome color of the fruit all over the field.

Pkt., 10c. Oz., 30c.  $\frac{1}{4}$  lb., 90c. Lb., \$3.00.

**BLACK BEAUTY EGG PLANT.**—The earliest of all large fruited egg plants, and produces fruits quite as large as the **NEW YORK PURPLE** in 10 days less time. The fruit is symmetrical in shape, of uniform size, of a dark rich purple color, which does not fade or change to lighter color at blossom end like some other varieties. Just the variety for the market gardener and trucker for early spring trade.

Pkt., 10c. Oz., 35c.  $\frac{1}{4}$  lb., \$1.00. Lb., \$3.50.

**NEW YORK IMPROVED LARGE PURPLE EGG PLANT.**—This market garden variety has plants of strong growth and is very productive, producing plants of large size and fruits of smooth, deep purple color until frost. Pkt., 5c. and 10c. Oz., 25c.  $\frac{1}{4}$  lb., 75c. Lb., \$2.50.

1 Oz. of Seed Will Sow a Drill  
of About 200 Feet.

# KALE.

German,  
Blaetter-Kohl.



EXTRA CURLLED NEW AMERICAN KALE.

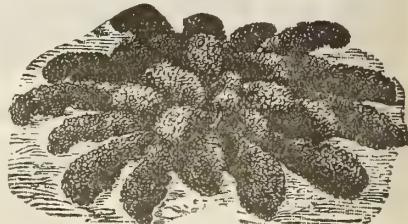
THE KALES are more hardy than Cabbage, and make excellent greens for winter and spring use, and are improved by frost. For early spring use, sow broadcast in September, and protect during winter. It must also be sown in April or May for later use.

**DWARF GREEN GERMAN KALE.**—This variety sow in September broadcast, and gather in early spring like spinach. It may also be sown early in the spring for later use.

Pkt., 5c. 1/4 lb., 15c. Lb., 40c.

**NORFOLK.**—A variety used by the truckers of Norfolk for shipment North. Light green color and leaves much curled.

Packet	5c.
Ounce	10c.
1/4 lb.	20c.
Pound	60c.



DWARF GREEN GERMAN KALE.

**Extra Curled New American Kale.**  
This is an extra curled, long-standing variety of a beautiful green color; stands the winter well, and will stand longer in the spring before going to seed than other variety.

Pkt., 5c. 1-4 lb., 15c. Lb., 45c.

# KOHLRABI

1 OZ. OF SEED TO 100 YARDS  
OF ROW.

## WHITE VIENNA.

BULB LIGHT GREEN.  
FLESH WHITE.  
VERY RAPID IN GROWTH.  
EARLY MATURITY.  
FINE IN TEXTURE, and  
SYMMETRICAL IN FORM.  
SUPERIOR.

Pkts., 5c. and 10c.  
Oz., 20c. 1-4 lb., 50c.  
Lb., \$1.50.

**IMPROVED KOHLRABI.**—Pkts.,  
5c. and 10c. Oz., 10c. 1-4 lb., 40c.  
1-2 lb., 50c. Lb., \$1.25.



# LEEK.

German,  
Lauch.

1 OZ. OF SEED TO 150 FEET OF ROW.

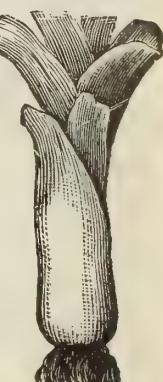
**S**ELECT good Onion soil, manure liberally, plant in April in drills 6 to 8 inches deep, and 18 inches apart, and thin to 9 inches apart in the drill. Gradually draw the earth around the plants until the drills are filled level with the surface. Draw for use in October. To be used in soups or boiled as Asparagus.

**EXTRA LARGE MAMMOTH.**—A large and strong plant; hardy. The best variety for general culture.

Pkt., 5c. Oz., 10c. 1-4 lb., 30c. Lb., \$1.00.  
Lb., \$1.50.

**MUSELBURGH.**—Oz., 15c. 1-4 lb., 50c.  
Lb., \$1.50.

**LARGE ROUEN.**—Pkts., 5c. and 10c. Oz.,  
20c. 1-4 lb., 40c. Lb., \$1.25.



# LETTUCE.

German, Lattich.

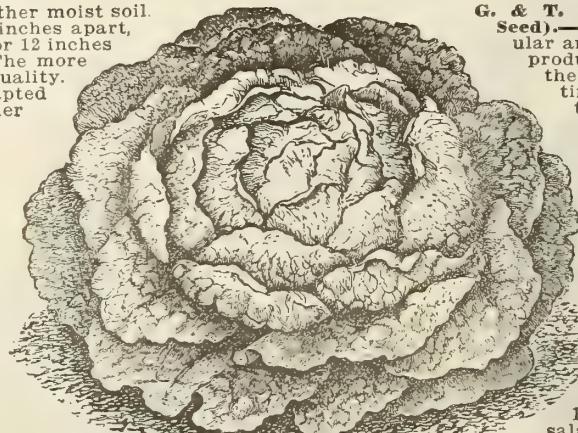
**L**ETTUCE requires a rich and rather moist soil. The rows should be about 12 inches apart, and the plants thinned to 10 or 12 inches apart for the leading varieties. The more rapid the growth the better the quality. Some varieties are peculiarly adapted for early culture, others for summer growth.

## G. & T. CO.'S WHITE SEED SUMMER LETTUCE.

The Best Summer Lettuce  
Ever Introduced.

This variety, introduced by us recently, has exceeded our expectation. Those who purchased it were delighted with their crops, and came back for more seed. This Lettuce will stand the summer heat better than most sorts, and makes magnificent heads. We expect this sort to grow in favor wherever known. It has a beautiful green color; head solid; light leaves; nicely crinkled; very tender and of most excellent flavor.

Pkt. 5c. Oz., 20c. 1-4 lb., 50c.  
Lb., \$1.50.



**G. & T. CO.'S SUMMER LETTUCE (Black Seed).**—This Lettuce is becoming very popular among gardeners for summer use. It produces a splendid, large, solid head, of the Cabbage type, remaining a long time in prime condition without going to seed; in fact, it is often necessary for the seed growers to slit open the head in order to allow the seed stalk a chance to develop. It is of a light green color, fine quality, crisp, tender, and nearly every plant will make a fine, solid head in the hottest weather, when other varieties refuse even to grow.

Pkts., 5c. and 10c. Oz., 15c.  
1-4 lb., 40c. Lb., \$1.25.

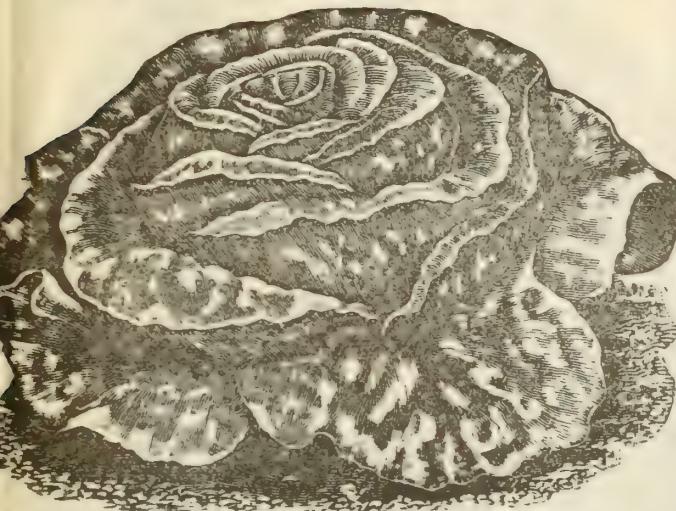
**EARLY WHITE CABBAGE, OR BUTTER.**—A broad-leaved, vigorous-heading sort; white, showy and desirable. Pkt., 5c. Oz., 15c.  
1-4 lb., 30c. Lb., \$1.00.

**EARLY CURLY SIMPSON.**—Black seed. Very early; excellent for salads; forms a compact mass of leaves. Pkts., 5c. and 10c. Oz., 15c.  
1-4 lb., 30c. Lb., \$1.00.

**TENNIS BALL.**—Black seed. A favorite forcing variety; a very hard head. Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 30c. Lb., \$1.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

# LETTUCE—Continued.



BALTIMORE CABBAGE LETTUCE.

## Baltimore Cabbage Lettuce

G. &amp; T. CO.'S TRUE STOCK.

**Large Heads, Beautiful Heads, Solid Heads, Stands Heat Well. Best of all for FALL PLANTING.**

THIS new Lettuce, which we introduced a few years ago, and claimed to be one of the best ever put on the market, and which produced such a sensation among the large growers who tried it, still holds a high place among Lettuce. As soon as the growers discovered its merits they came for more seed, and recommended it to all their friends; these, in turn, were delighted with their crops, as the result more than justified all we claimed for it. A grower at Gardenville, Md., says: "I had 3000 heads of your Baltimore Cabbage Lettuce, and they all headed but one; they are slow to run to seed." The heads are large and solid; color, pretty light green, and very slow to seed; in fact, it is just what the truckers and gardeners want. A large trucker in New Jersey writes: "The Baltimore Cabbage Lettuce I had of you was certainly very fine." Pkts., 5c. and 10c. Oz., 20c. 1-4 lb., 50c. Lb., \$1.50.

### IMPROVED NEW YORK, or "WONDERFUL."

Plants of extra large growth, producing heads of immense size under favorable conditions. Inner portion is beautifully blanched, and stands for a considerable time before running to seed. Outer leaves a deep, rich green.

Pkts., 5c. and 10c. Oz., 15c.  
 $\frac{1}{4}$  lb., 30c. Lb., \$1.00.

### CALIFORNIA CREAM BUTTER LETTUCE.

This is fairly well known, and has given good results with the growers.

Pkts., 5c. and 10c. Oz., 15c.  
 $\frac{1}{4}$  lb., 35c. Lb., \$1.00.

### HANSON.

A variation of the Indiana, forming a half-closed head.

Pkts., 5c. and 10c. Oz., 15c.  
 $\frac{1}{4}$  lb., 25c. Lb., 85c.

### SALAMANDER (Black Seed).

An excellent sort for spring or summer use; forms good-sized heads of excellent quality.

Pkts., 5c. and 10c. Oz., 10c.  
 $\frac{1}{4}$  lb., 25c. Lb., 75c.



BIG BOSTON.

**BALTIMORE OAK LEAF.**—This Lettuce will resist the heat of summer and stand longer before running to seed than any variety we have ever known. It makes a large, solid head, and is very popular with those who know it.

Pkts., 10c. Oz., 20c. 1-4 lb., 50c. Lb., \$1.50.

### BIG BOSTON.

The same in color, shape and general appearance as the Boston Market, double the size. A most desirable sort either for forcing in cold frames or planting in open ground. Is popular with truckers, as it makes large, solid, salable heads. Very highly recommended by those who have tried it.

Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 40c. Lb., \$1.00.

### MAMMOTH BLACK SEDED BUTTER LETTUCE.

A strain of large, smooth leaved, head lettuce, forming very large, solid cabbage-like heads of thick, brittle leaves; the inner ones becoming very white, tender and fine flavored.

Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 40c. Lb., \$1.25.

**ROMAINE OR PARIS WHITE COS.**—Differs entirely in shape from the other varieties, the head being elongated and of conical form, eight or nine inches in height and five or six inches in diameter. The outer coloring of this variety is yellowish green. It is very hardy and of good flavor. To blanch perfectly it must be tied up.

Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 30c. Lb., \$1.00.

### BIG HEAD LETTUCE.

The "Big Head" is certain to please market gardeners and truckers, because it always produces large, salable heads. It is very solid and crisp, of tender quality, which makes it attractive. Pkts., 5 and 10c. Oz., 15c. 1-4 lb., 35c. Lb., \$1.00.

### BOSTON MARKET.

White seed. A celebrated variety in New England, of good heading habit; small, early and compact; quite desirable.

Pkts., 5c. and 10c. Oz., 15c.  
 $\frac{1}{4}$  lb., 40c. Lb., \$1.25.

**GRAND RAPIDS.**—This variety is largely grown for shipment, and is considered by many the best loose-headed Lettuce for forcing under glass. Leaves medium size, of light, yellowish-green color, much crimped and frilled, thin, but of very upright growth; crisp, tender and of good quality. Owing to its upright habit, it may be planted very closely. It is of extremely rapid growth; very little liable to rot; will stand without spoiling a week to ten days after it is fit to cut, and retains its freshness a long time after cutting.

Pkts., 5c. and 10c. Oz., 10c.  
 $\frac{1}{4}$  lb., 30c. Lb., \$1.00.

### DEFIANCE.

Stands summer heat better than any other variety; one of the finest large-growing varieties. It forms very large, solid heads, so firm they have to be cut open to allow the flower heads to come through.

Pkts., 5c. and 10c. Oz., 10c.  
 $\frac{1}{4}$  lb., 30c. Lb., \$1.00.

## LARGE LOAF LETTUCE.



LARGE LOAF LETTUCE.

THIS is so well known to truckers and gardeners around Baltimore and Norfolk that for them it scarcely needs description. For the benefit of those who are not acquainted with it, would say it makes large, compact heads, is of beautiful light green color, very tender and crisp. This is unsurpassed for frame use, and is also an excellent outdoor Lettuce for fall or early spring.

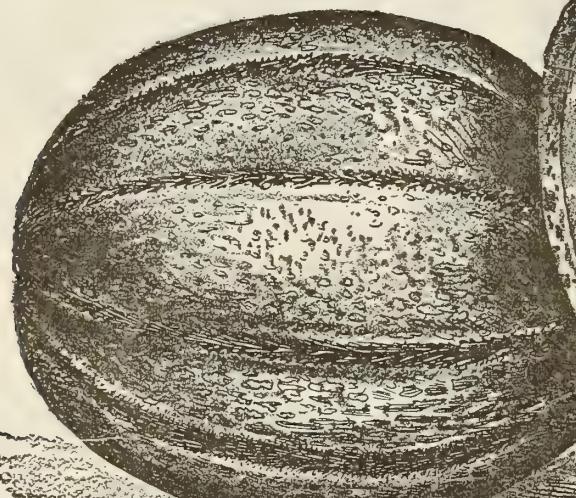
Pkt., 5c. Oz., 10c. 1-4 lb., 30c. Lb., \$1.00.

## MUSK-MELON.

German, Melone.

## CULTURE.

One ounce of seed to 50 hills. Sow about the last of spring or the first of summer, in hills of light, rich, sandy soil, four feet apart, allowing but three plants to grow in each hill; after they have grown about a foot long, pinch off the points of shoots, which causes the vines not only to become stronger, but makes them produce lateral branches and prove more productive and mature earlier. It should not be grown near squashes, cucumbers or pumpkins, as the flavor will be affected in consequence.

MARYLAND GROWN  
BALTIMORE.

BALTIMORE NUTMEG.

## Baltimore Nutmeg Cantaloupe.

THE cut is from a photograph taken from a sample lot of *Baltimore Nutmeg Cantaloupes* gathered from the field where our seed was grown, and is a fair representation of the whole crop. The stock seed of this splendid melon was secured from a trucker who enjoys the reputation for raising the finest Cantaloupes that come to the Baltimore market. The writer also tested the fruit, and found it to be of excellent flavor. It is green-fleshed, and the rind is handsomely netted. It is well known and popular with the truckers and market gardeners of Baltimore, Washington, Norfolk and other places; in fact, it is a leading sort all over the country.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 25c. Lb., 75c.

## EMERALD GEM.

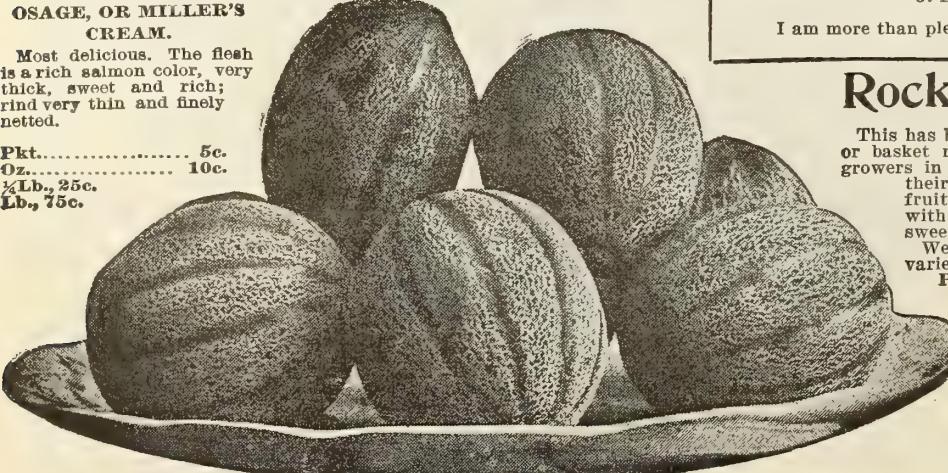
Meat, salmon color, exceedingly sweet and delicious; very early and prolific. One of the best for family use. Its appearance is not attractive, but try it, and you will want it again.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 25c. Lb., \$1.00.

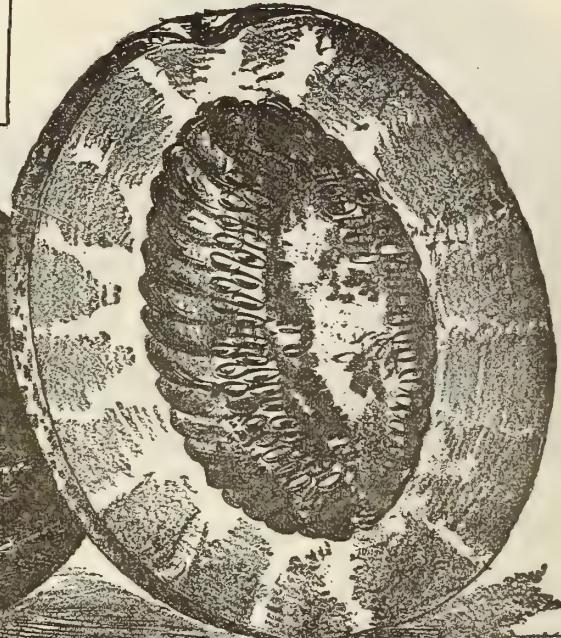
## OSAGE, OR MILLER'S CREAM.

Most delicious. The flesh is a rich salmon color, very thick, sweet and rich; rind very thin and finely netted.

Pkt.....	5c.
Oz.....	10c.
$\frac{1}{4}$ Lb., 25c.	
Lb., 75c.	



ROCKY FORD.



## EARLY NETTED GEM.

EXTENSIVELY grown, and many prefer it to all others for table use. Grows remarkably uniform; thick meatied; flesh light green in color, and of fine, luscious flavor; skin green, regularly ribbed and thickly netted; very productive and extra early in ripening; will keep for nearly a week after picking, and is especially suited for shipping in baskets or crates.

Pkts., 5c. and 10c.  $\frac{1}{4}$  lb., 25c. Lb., 75c.

## IMPROVED JENNY LIND.

A small, early variety of surpassing good quality, highly recommended for family garden. We consider this the most delicious Cantaloupe we have ever eaten, and while the fruit is small, it is an abundant bearer. A market gardener having this sort for sale would in a short time have no difficulty in disposing of all he could raise.

Pkt., 5c. Oz.; 10c.  $\frac{1}{4}$  lb., 25c. Lb., 70c.

## TRUE TO NAME.

The *Rocky Ford* I got of you last year was excellent, and every hill proved true to name.

J. A. RICHARDSON, Smithsburg, Md.

I am more than pleased with your seed.

N. E. MILLER, Virginia.

## Rocky Ford Melon.

This has become one of the most popular of small or basket melons, largely owing to the fact that growers in the *Rocky Ford* region pack and ship their fruit in a most attractive manner. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and high-flavored.

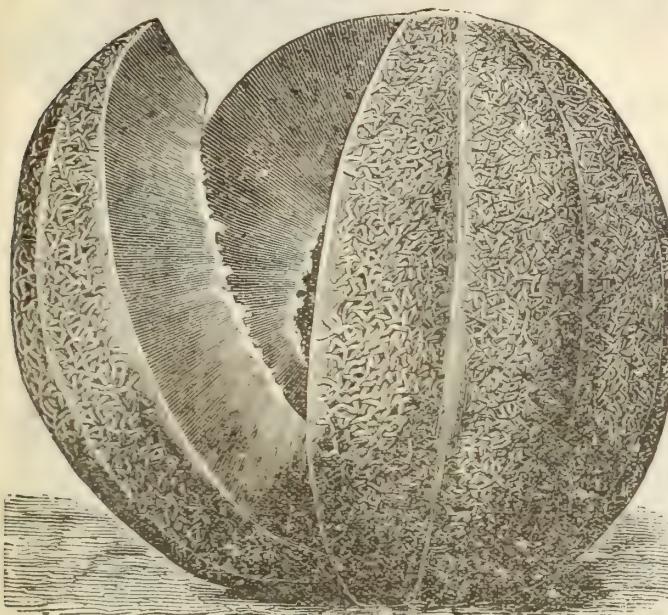
We have an exceptionally fine stock of this variety grown from choice selected specimens.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 25c. Lb., 75c.

All Prices Subject to change without Notice.

# MUSK MELONS—Continued.

## PAUL ROSE.



ANNE ARUNDEL.

### ANNE ARUNDEL CANTALOUPES

(Original Stock.)

The cut represents a sample of our stock photographed from fruit taken from the growing seed crop. It is very large, nearly round, deeply netted, and of good flavor. A wagonload of them at once attracts the buyers' attention, and when piled up on a market stall they are irresistible. No large grower's stock is complete without this superb melon.

This handsome melon, introduced by us several years ago, was for years a special favorite with a number of the leading growers of Anne Arundel County, Maryland. This county is justly celebrated as growing the finest Cantaloupes in the country. We might almost say the finest in the world. Knowing its value, we selected the stock and placed it before our customers. It has met every promise we made for it upon its introduction. Pkt., 5c. Oz., 10c.  
 $\frac{1}{4}$  Ib., 25c. Lb., 75c.

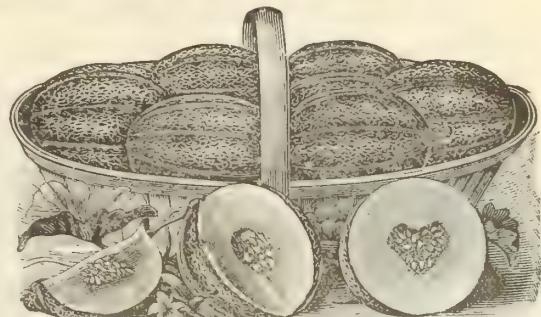
One grower says: "It is in all respects one of the best of melons."

Another says:

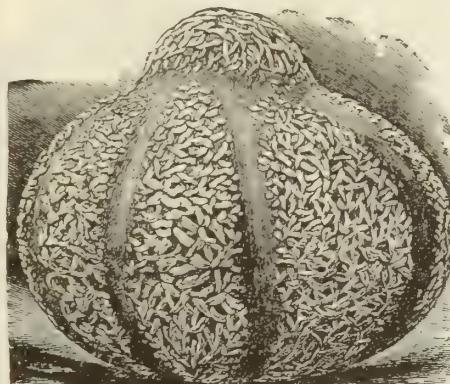
"Portsmouth, Va.

"Dear Sirs—The Anne Arundel Cantaloupe was perfectly satisfactory—just what it is claimed to be. It proved to be early, of good size, and gave me a large yield."

This variety originated with one of the most successful melon-growers in the country, who reports that when planted for market the fruit has brought him nearly twice as much per acre as he realized from any other sort. In this new sort are combined all the good qualities of the Netted Gem and the Osage, the varieties from which it originated. The fruit is oval, about 5 inches in diameter, and in shape and general appearance similar to the well-known Netted Gem or Rocky Ford. The firm flesh is a rich orange-red color, like that of the Osage, but even sweeter and higher flavored, retaining its good qualities quite to the rind. We have found the fruit the most uniformly good of any musk melon we have ever grown, every one of the hundreds tested being sweet and rich flavored. It is rare that a musk melon of such superlative quality is a good market or shipping sort, but the firm, solid flesh and thin but strong rind of this sort makes it the best shipper we know of, while it is just the size for hotel and table use. We think it really has no equal as a market melon for professional melon-growers, and it is one of the very best sorts for the home garden. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  Ib., 25c. Lb., 85c.



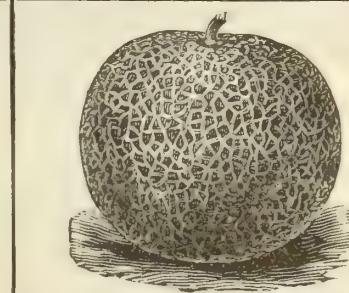
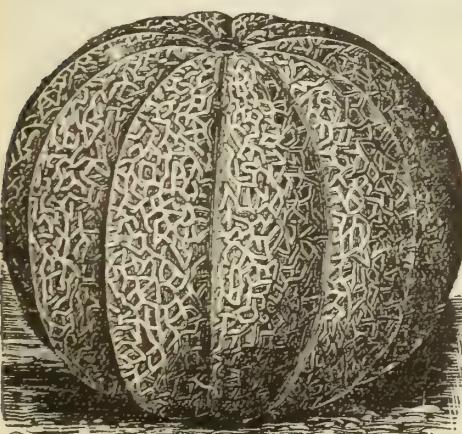
PAUL ROSE.



### NORFOLK BUTTON.

An improved strain of Early Jenny Lind, having a nub or button on the blossom end, which gives it a distinction over all other varieties. It is very early, of remarkably fine texture and delicious flavor, and produces fruits of the finest quality. It is extra fine for both home and market use. We are putting the above on the market for the first time, and have but a limited supply of seed. Those who wish to secure a trial order will do well by placing their order at once.

Pkt., 5c. and 10c. 1-4 lb., 35c.  
Lb., \$1.00.



### BANQUET.

This superb melon represents years of careful selection and improvement. The raiser regards it as his greatest production, and likely to supersede all other red-fleshed melons. "The Banquet" is a medium-sized melon, flat at both ends, and more beautifully netted than any known variety. In quality it has no equal; the flesh is uniformly deep and of that granulated character that always indicates a good melon; the color is a dark, rich salmon.

Pkt., 5c. Oz., 20c.

### EXTRA EARLY HACKENSACK

Netted, green flesh and excellent; very showy market variety and an excellent keeper. Ten days earlier than the Old Hackensack.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 25c. Lb., 85c.

**PERFECTED-DELMONICO.**—This is one of the best of the red-flesh sort; the flesh is a deep, rich orange color, of very fine grain, and of delicate and delightful flavor. Pkt., 5c. Oz., 15c.  $\frac{1}{4}$  lb., 50c.

**LONG ISLAND BEAUTY**—Pkt., 5c. Oz., 15c.  $\frac{1}{4}$  lb., 40c.

# WATERMELONS

German—Wasser Melone.

**CULTURE.**—One ounce of seed to thirty hills. Watermelons require a rich, sandy soil for best development. Cultivate the same as for Cantaloupes, except that the hills should be eight or ten feet apart.



## Lord Baltimore.

IT is early, very large, of oblong shape, and the flesh is of handsome crimson color, deliciously sweet, and extending close up to the rind. It has a thin, hard rind, beautifully mottled light and dark green. Its perfect shape, faultless color, fine texture and excellent flavor combine to make it one of the very best Melons that grows. It is a good shipper, and beats all others as a seller.

Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 60c.

## Duke Jones Watermelon

IN shape the DUKE JONES resembles very closely the Kolb Gem. The rind is darker green in color, with indistinct, irregular stripes of dark and light green alternating; in general appearance it is a dark green Melon. It averages very large in size, comparatively no small Melons; is very productive; it is also very early in maturing, ripe Melons being plucked from the vine just 67 days from the date of planting. Its chief claim for popularity is its delicious flavor. The flesh is crisp and very sweet, firm, but not too tough; no hard middles, but ripens evenly throughout; flesh deep crimson in color. The Duke Jones is the largest of Melons, but has no superior in its delicious flavor.

Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 40c.

### GRAY MONARCH, OR LONG WHITE ICING.

This distinct Melon is without doubt one of the largest of all, frequently attaining a weight of 70 pounds and over. The skin is a mottled gray color, shape long, flesh bright crimson, and of sweet, delicious flavor. It is also a fine shipper, carrying well long distances, and bringing very high prices.

Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 50c.

### RATTLESNAKE WATERMELON.

Large, oblong, striped and mottled; flesh bright red; a good shipper; a favorite variety in the South.

Pks., 5c. and 10c. 1-4 lb., 15c. Lb., 40c.

### BRADFORD WATERMELON.

A favorite above all others in sections where it has been grown. It makes a strong, healthy growth of vine and is very productive. The melons grow to a large size; rind dark-green with darker stripe; flesh dark and remarkably tender and sweet. An excellent melon for home use.

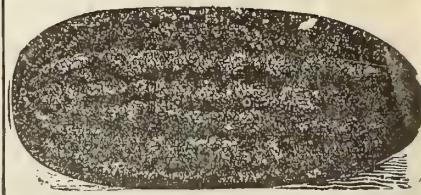
Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 50c.

### CITRON.

For Preserves. Fruit round and handsome.

Used in making preserves only.

Pkts., 5c. and 10c. 1-4 lb., 20c. Lb., 65c.



## FLORIDA FAVORITE.

THIS we consider the richest and sweetest flavored Melon grown, of medium size and prolific. The best of all for family garden. It is now very popular with the truckers and melon-growers of Maryland and Virginia, and sells readily in the Baltimore markets.

Pkt., 5c. Oz., 10c. 1/4 lb., 20c. Lb., 50c.

### McIVER'S SUGAR WATERMELON.

In outward appearance it somewhat resembles the old Rattlesnake. The quality, however, is so much superior that it is an injustice to mention the Rattlesnake on the same page with it, as it even surpasses such excellent varieties as Florida Favorite and Icing. It is also an extremely productive and hardy variety.

Pkt., 5c. Oz., 10c. 1/4 lb., 20c. Lb., 50c.

### FORDHOOK EARLY.

This is a very early variety, growing to a good size; color, medium green; form, nearly round; seeds, white; flesh, bright red and very sweet.

Pkt., 5c. Oz., 10c. 1/4 lb., 20c. Lb., 60c.

### BLACK BOULDER.

It is enormously productive, reaching a mammoth size, with rich, dark-green skin. It cuts equal to any melon we have ever eaten, and its shipping qualities are phenomenal, no other Melon equaling it in tough skin and rind; in this respect even superior to Kolb Gem.

Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 40c.

### KLECKLEY'S SWEETS.

Skin dark green, thin rind, flesh scarlet, very solid, firm and most luscious quality. For the home market or family garden it is decidedly one of the best.

Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 60c.



DUKE JONES.

## TRIUMPH WATERMELON

This new Melon, as a market sort and for shipment, is the very best we have ever introduced. It is very prolific, very early, and of uniformly large size. It is a cross between the Duke Jones and the Kolb Gem; has the handsome appearance of the former and the fine shipping qualities of the latter. The rind, like Duke Jones, is of dark green color; the seed is exactly the same color as that of Kolb Gem. The average size of the Melon is very large.

Pkt., 5c. Oz., 10c. 1/4 lb., 15c. Lb., 40c.

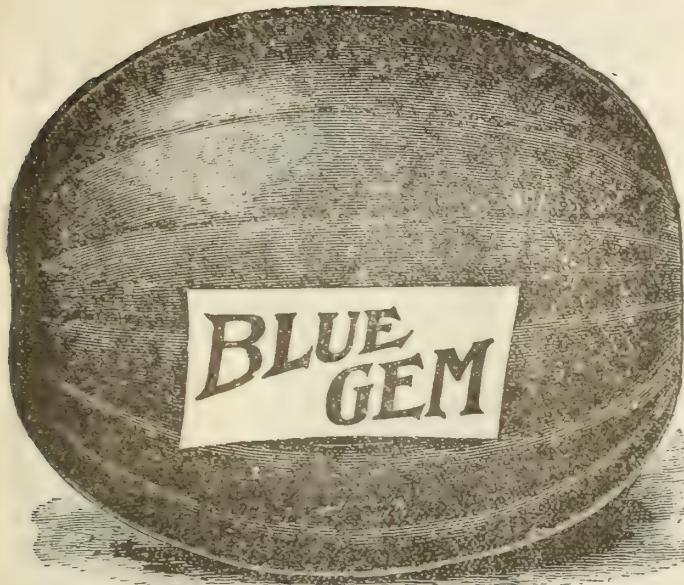
## BLACK STRIPED KOLB GEM WATERMELON.

The size of this fruit is uniformly large; shape oval; color a rich dark green with fine stripes of lighter shade. Much darker and richer than the old well-known Kolb Gem; flesh rich deep pink; crisp and melting; ripens to within half inch of the rind. The exceptionally strong rind makes it an excellent shipper; flavor remarkably sweet and sugary.

Pkt., 5c. Oz., 10c. 1/4 lb., 15c. Lb., 35c.

# WATER-MELONS.—Continued.

## KOLB'S GEM.



### BLUE GEM.

THIS splendid Melon resembles the Kolb Gem in shape, and is one of the very best shippers, and as a table Melon is of a dark bluish color, with small grayish stripes. Is much superior to the Kolb Gem. Very productive, and is handsome and showy.

A grower in Dixie (Georgia) says: "If you want a shipper that will go around the world, you can safely select the BLUE GEM." Pkts., 5c. and 10c.  $\frac{1}{4}$  lb., 20c. Lb., 40c. 5 lbs., \$1.75.

THIS is one of the largest, most productive, best-keeping and best-shipping Watermelons grown. Sells readily at the highest market prices. In fact, it is so well known that it speaks for itself. Our stock of this comes direct from the original grower. Special prices on large quantities.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 40c.

### DIXIE.

It is earlier and larger than the well-known and popular Kolb Gem, and in color a darker green, with beautiful stripes, making it one of the handsomest Melons on the market. Flesh deep red, sugary and melting.

Pkts., 5c. and 10c.  $\frac{1}{4}$  lb., 15c. Lb., 40c.

### SWEETHEART.

An entirely distinct and handsome new Watermelon. Vine vigorous and productive, ripening early. Fruit large, oval, very heavy, uniformly mottled light and dark green. Flesh bright red, solid and very sweet.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 50c.

## ENGLISH MILL TRACK MUSHROOM SPAWN.

Lb., 12c. By Mail, 20c. Lb., Postpaid. 10 Lbs., \$1.00. 100 Lbs., \$8.00, by Freight or Express.

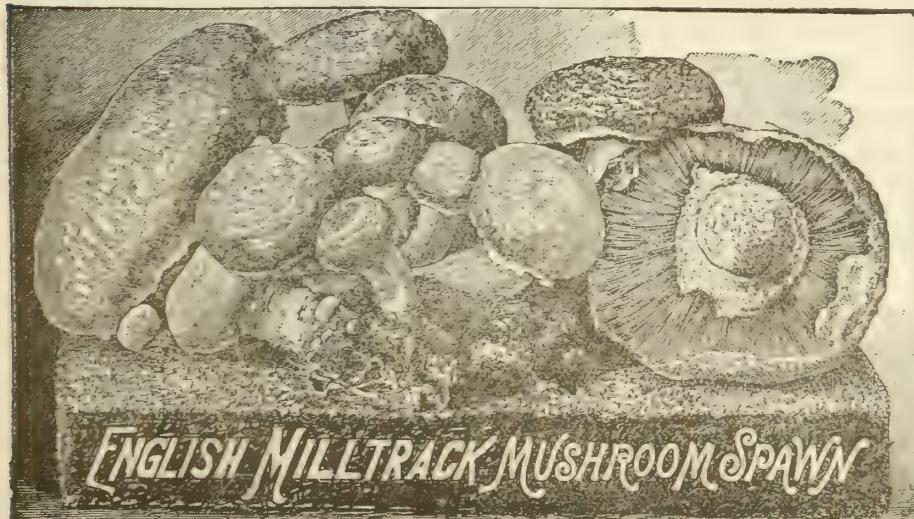
### CULTIVATION.

THE cultivation of the Mushroom is a very simple matter and requires only ordinary intelligence and care. The materials needed are fresh horse manure, good soil and live spawn. The manure should not be too short, as it does not combine the necessary qualities. Long strawy litter, plentifully mixed with short manure, makes by far the best beds, as it does not heat too violently, decomposes slowly and retains its heat for a long period. Put in a heap and turn every three or four days to permit the escape of noxious gases and prevent burning. When ready for use it should be as hot as can be borne comfortably by the hand, and should also be moist. Make the beds 3 feet wide at the base,  $2\frac{1}{2}$  feet high, and of any desired length. The manure, when in proper condition, should be quickly handled to prevent the loss of heat, and be beaten down to make the heap firm and compact, and covered with long litter. The bed should within a few days warm to a temperature of 110 to 120 degrees. Never spawn a bed when the heat is rising, but always on the decline and under 90 degrees. Have a ground thermometer, and keep it plunged in the bed; by pulling it out and looking at it you can ascertain exactly the temperature of the bed. Should the temperature not exceed 100 or 110 degrees no alarm should be felt, for if the manure was fresh it will likely produce a good crop. When the heat has decreased to 90 degrees the bed is ready to receive the spawn, which is done by raising the manure with the hand and inserting pieces of spawn 2 inches square and 9 inches apart each way. At the expiration of a few days the bed may be covered with soil to the depth of about 2 inches. If in a closed cellar or mushroom house, wait about ten days, but if in open shed five days will do. If the soil is poor, add a liberal quantity of bone meal. It requires a period of 5 to 7 weeks before they are ready for use.

Two pounds of spawn are sufficient for a bed 3 feet by 6 feet.

Mushrooms can be readily grown in cellars, stables, sheds or pits. Many are successfully grown on a shelf in an ordinary cellar, and yield sufficient crops to compensate the grower for his effort. The space under greenhouse benches or stagings will suit them exactly, using materials in the same manner as described.

**MUSHROOMS ON PASTURE LAND OR LAWN.**—About the first of June take pieces of spawn an inch square, and lift the sod with a trowel or spade just sufficient to get a spawn under it, and then press the soil down hard. Set the spawn 1 to 2 feet apart. In a favorable season a crop may be expected in 3 or 4 months from the time of planting.



## MUSTARD. GIANT CURLED.

Highly esteemed in the South, where the seed is sown in the fall, and used in the spring as a salad. Our stock is the true curled leaf, and produces plants two feet high and of greater breadth, forming enormous bunches.

Packet, 5c. Ounce, 10c.  $\frac{1}{4}$  lb., 15c. Lb., 40c.

**WHITE MUSTARD.**—1-4 Lb., 10c. Lb., 25c.

### CULTIVATION. TO GROW LARGE ONIONS FROM SEED.

The seed should be sown as early as possible in the spring, as they grow much better during the cool weather, and should make most of their growth before the hot weather sets in. Sow 5 pounds of seed to the acre for large Onions.

#### THE NEW ONION CULTURE.

Sow the seed in hotbed and transplant early as possible to open ground. They can be grown very successfully by this plan.



#### WHITE SILVERSKIN, or PORTUGAL.

A good variety for family use; skin and flesh pure white, mild flavor and flat shape. The best white Onion to grow largely for sets.

Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 65c. Lb., \$2.50.

#### WHITE PEARL ONION.

Earliest of all, growing with all the rapidity of a summer Radish. Pearly white, waxy and transparent. Form flat and broad, flavor very mild, and it can be eaten raw almost like an apple. On rich soil it will grow very large. This is an elegant sort to sow for large Onions, because of its rapid growth and fine quality.

Pkt., 5c. Oz., 20c.  $\frac{1}{4}$  lb., 60c. Lb., \$2.00.

#### AUSTRALIAN BROWN.—A Valuable Long-Keeping Onion.

This new Onion, introduced into the United States a few years since, has met with wonderful success, and is pronounced the best keeper of all Onions. The outside skin is of a deep amber brown, distinct from all other Onions, extremely hard and firm, of fine flavor, and will keep almost indefinitely. Australian Brown is the only Onion Australian growers will plant.

Pkts., 5c. and 10c.  $\frac{1}{4}$  lb., 60c. Lb., \$2.00.

## OKRA OR GUMBO.

**S**LECT warm location and rich soil, and plant when the ground becomes warm, in rows three feet apart, thinning plants a foot apart in the row. As the seeds are liable to rot in cool weather, they should be sown thickly. The pods are used to thicken soup, being gathered when young. It is one of the most wholesome vegetables in use.

#### DWARF OKRA.

This is the preferred kind with the growers; is of dwarf habit and very productive.

Pkt., 5c. and 10c.

1-4 lb., 15c. Lb., 40c.

#### WHITE VELVET.

It is very distinct, and the pods are perfectly round and smooth, of an attractive white velvet appearance, and of superior flavor and tenderness. The pods are of extra large size, and produced in great abundance.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 40c.

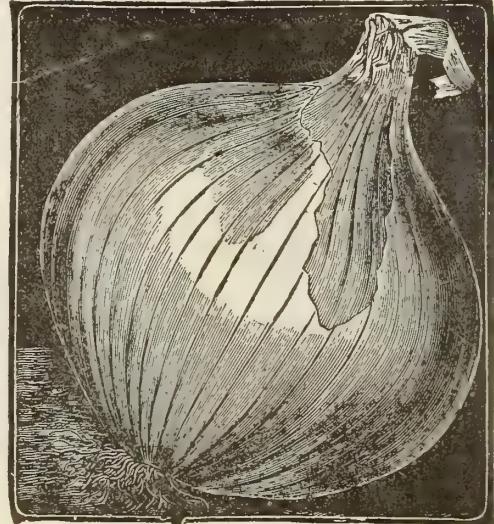
## NASTURTIUM.

Plant in May, the climbing varieties to cover arbor or fence, and the dwarf for beds or hanging baskets. The leaves are used for salad, and the seeds, when soft enough to be penetrated by the nail, for pickles.

**TALL.**—Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 25c. Lb., 70c.

**DWARF.**—Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 25c. Lb., 70c.

**ONION SEED**



## PRIZETAKER.

### American Crown.

**T**HIS is the large, beautiful Onion that is seen every fall offered for sale at the fruit stores in Baltimore and other large cities. It has a rich straw color, and is of enormous size. Although of such large size, it is very hardy and an excellent keeper. The flavor is mild and delicate, making the Prizetaker a favorite variety for salads. By sowing this sort early you can raise a large crop of large Onions the first season with very little trouble. All that is necessary is good ground, proper cultivation, and not to have them too thick. Those of our growers who have tried this variety have had remarkable fine success.

Pkt., 5c. Oz., 20c.  $\frac{1}{4}$  lb., 60c. Lb., \$2.00.

#### WETHERSFIELD LARGE RED.

Well-known and favorite sort. A large yielder and good keeper.

Pkt., 5c. Oz., 15c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.75.

## ONION SETS.

### WHITE-

Oz., 20c.

mailed, 30c.

### YELLOW-

Oz., 15c.

mailed, 25c.

Write us

for quota-

tions by

the bushel.

### CULTIVATION

#### FOR SETS.

Have a clean and very rich soil, which should be thoroughly cultivated, or it will not do well enough to pay for the trouble. The most successful growers work their ground several times in the fall to kill out the weeds and get ground in nice condition. Use well-rotted manure freely, and be sure to get the seeds in as early as possible in the spring, no matter if it is ever so cold or unpleasant, and keep the

soil mellow and clear of weeds, and if seed is good you will have a large crop of Onion Sets. On no other condition can you hope for success. Disturb the roots of the Onion as little as possible, either in thinning or hoeing, and never hoe earth toward them to cover or hill, as we do most other things.

Sow the seed in drills about 12 inches apart. It will require from 40 to 60 pounds to sow an acre.

SPECIAL PRICES TO MARKET GARDENERS.



LARGE YELLOW DUTCH  
OR STRASBURG.

Very fine; a good keeper. The kind used very largely by those who grow Onion Sets for market.

Pkt., 5c. Oz., 20c.  
 $\frac{1}{4}$  lb., 60c. Lb., \$2.25.

YELLOW FLAT  
DANVERS.

Oz., 20c.  $\frac{1}{4}$  lb., 60c.  
Lb., \$2.25.

Bermuda Varieties.

They are of a mild and delicate flavor, and keep longer than any foreign variety. Like the Italian varieties, they will produce full-grown Onions from seed the same season. In the South seed sown in the fall will produce fine large Onions for market in early spring.

**RED BERMUDA.**

Pkt., 10c. Oz., 20c.

**WHITE BERMUDA.**

Pkt., 10c. Oz., 20c.

$\frac{1}{4}$  lb., 50c. Lb., \$1.75.

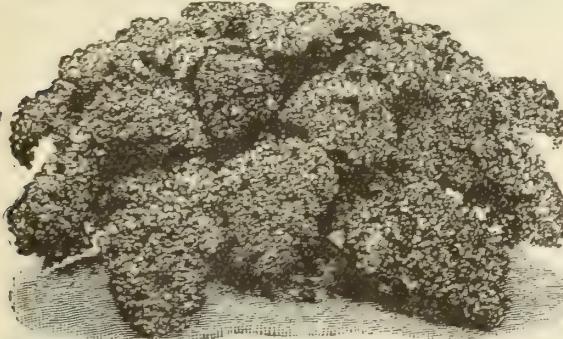
Yellow Globe Danvers

A very handsome, round, yellow Onion; a large yielder and splendid keeper; the preferred sort with market gardeners and large growers all over the country. We unhesitatingly recommend it for growing either sets or large Onions.

Pkt., 5c. Oz., 20c.  
 $\frac{1}{4}$  lb., 75c. Lb., \$2.75.

**PARSLEY.**

**SELECT** rich soil; sow the seed in drills one foot apart, covering half an inch deep. It would be well to firm the soil with the foot after sowing the seed. As the seed is usually from 15 to 25 days in germinating, it will be necessary to sow early. Thin plants to 4 inches apart when 2 inches high. The beauty of the plant may be increased by several successive transplantings. It is used principally for flavoring soups, etc., and for garnishing in its natural state.



**DWARF EXTRA CURLED.**—The most beautiful and valuable variety in use; handsome bright green color, finely crimped, beautifully curled.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 45c.

**MOSS CURLED.**—A very select crimped variety.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 45c.

**PEPPER, or Capsicum.**

Is cultivated mainly for pickles; used as a seasoning in many ways; sometimes medicinally. Sow seed early in hotbed, if possible; if not, select a warm place in the garden for seed bed; sow as soon as the soil is warm. Transplant when 3 to 4 inches high, in rows 18 inches apart.

**CAYENNE.**—Small, long and tapering, very hot; best for seasoning pickles. Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c.

**LARGE SWEET.**—Very large and excellent for Mangoes or Stuffed Pickles. Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c.

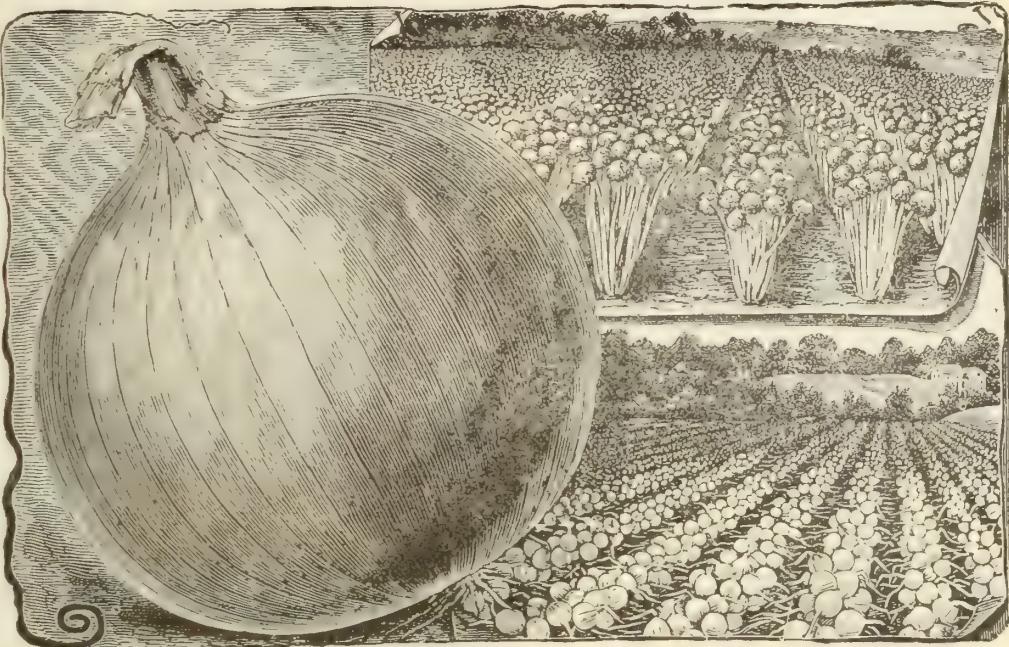
**BULL NOSE, or BELL.**—Good for pickling; very hot. Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c.

**RUBY KING.**—Excellent sort of large size and mild flavor. Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 75c.

**GOLDEN QUEEN.**—In shape and size similar to Bull Nose; of mild flavor; color, yellow. Pkts., 5c. and 10c. Oz., 25c.

**RED CHILI.**—Pkts., 5c. and 10c. Oz., 20c.

## ONION SEED.—CONTINUED.



THIS CUT REPRESENTS A FIELD OF YELLOW GLOBE DANVERS.

## PARSNIP.

The Parsnip will flourish best and give the longest, largest and smoothest roots in a very deep, rich soil—one that has been made rich from manure the previous year. Fresh manure makes the roots somewhat ill-shaped. Sow as early in the spring as the ground can be made ready, pretty thickly in drills from 12 to 18 inches apart, and about an inch deep. Thin the plants to 5 or 6 inches apart.

### Hollow Crown or Sugar.

The Hollow Crown is superior in quality to all other varieties, and the preferred kind with Baltimore gardeners. The roots are smooth, tender, handsome shape and early. We have the finest stock of Hollow Crown Parsnips that we know of in this country.

Pkts., 5c. and 10c.

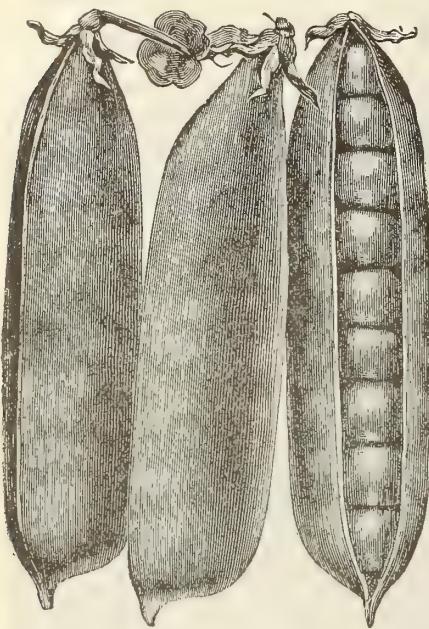
$\frac{1}{4}$  lb., 15c. Lb., 40c.

### Chinese Giant Pepper.

Double the size of Ruby King; the finest mild Red Pepper grown. It is very productive, having a magnificent appearance, which makes it sell readily.

Pkts., 10c. Oz., 35c.  
 $\frac{1}{4}$  lb., \$1.25.





EXTRA EARLY VARIETIES.

## G. & T. Co.'s FIRST EARLY.

(In Sealed Bags, Thoroughly Rogued and Hand-Picked.)

**T**HIS is the earliest of all, and the most profitable early market Pea, because of its early maturity, uniformity of growth and ripening and its productiveness. It ripens up so evenly as only to require about two pickings to secure the crop. It is grown from selected stock, under our own supervision, and the greatest care is exercised to keep it up to the highest standard of quality. It is a great favorite with the truckers, and is largely used by private families. Our sales of this sort increase annually.

Pt., 15c. Qt., 25c. Peck, \$1.15. Bus., \$4.00.

**DEXTER** (Genuine Stock).—Thoroughly rogued and hand-picked.

Qt., 20c. Peck, \$1.00. Bus., \$3.50.

**RURAL NEW YORKER**.—Height 2½ feet. In maturity it is among the first early. Qt., 20c. Peck, 90c. Bus., \$3.00.

**FIRST AND BEST**.—Height, 2½ feet. Grown with special care. One of the early varieties.

Qt., 20c. Peck, 90c. Bus., \$3.00.

**TRIUMPH PEAS**.—Qt., 20c. Peck, 90c. Bus., \$3.00.

**PHILADELPHIA EXTRA EARLY PEAS**.—Qt., 20c. Peck, 90c. Bus., \$3.00.

**ALASKA**.—Our best rogued and hand-picked stock. Height, 26 inches. The earliest Blue Pea; very uniform in growth and time of ripening. The dark green color of pods makes this a most desirable sort for canners and shippers, as it can be carried long distances without losing color.

Qt., 25c. Peck, \$1.15. Bus., \$4.00.

**THOS. LAXTON**.—Habit and growth same as **GRADUS**, but pods are a deeper green color, square at the ends, having fine flavor.

Pt., 20c. Qt., 35c. Peck, \$2.25. Bus., \$7.50.

**GRADUS OR PROSPERITY**—Pale Green Wrinkled.—The most attractive novelty of recent years. Large, handsome pods, well filled, ripening with the earliest and of vigorous habit.

Pt., 20c. Qt., 35c. Peck, \$2.25. Bus., \$8.00.

## PEAS.

**NOTICE.**—In ordering Peas to be sent by mail, please add 8c. per pint to pay postage.

**T**HE dwarf varieties should be liberally manured; the tall sorts will run too much to vine if heavily manured, it being better to depend on the richness of the land that was previously in good condition. Plant the dwarf in rows two feet apart; those varieties attaining the height of from two to three feet in rows three feet apart, and the rows of the tallest sort four feet apart. Bushing the tall kind when six inches high, on poles set every six or eight feet, with twine fastened to them about four inches apart, will answer finely.



NOTT'S EXCELSIOR PEAS.  
DWARF EXTRA EARLY VARIETIES.

**NOTT'S EXCELSIOR**.—It is the best of dwarf wrinkled extra early of recent introduction. The vines are larger and more vigorous than the American Wonder, while the pods are fully one-third larger, containing 6 to 8 fine, large Peas, packed so closely together in the pods that the Peas are always more square than round. The pods are always well filled with Peas, which in sweetness and quality have no superior.

Pt., 15c. Qt., 30c. Peck, \$1.75. Bus., \$6.00.

**AMERICAN WONDER**.—Very luscious in flavor. Try it. Height, 12 inches. The earliest wrinkled Pea; very productive and sweet. Better suited to the private than to the market garden.

Pt., 15c. Qt., 30c. Peck, \$1.50. Bus., \$5.75

**PREMIUM GEM**.—Height, 15 inches. An improvement upon the Little Gem. A splendid wrinkled dwarf Pea, very luscious in flavor.

Pt., 15c. Qt., 30c. Peck, \$1.50. Bus., \$5.00

**MCLEAN'S LITTLE GEM**.—Similar to Premium Gem, but more straggling in growth; pods not so well filled; height, 18 inches; seed green, wrinkled.

Pkt., 15c. Qt., 30c. Peck, \$1.50. Bus., \$5.00.

**BLUE PETER, OR BLUE TOM THUMB**.—One of the earliest and hardest of the dwarf varieties; blue seed, dark green pods; large Peas of excellent quality; much superior to the White Tom Thumb.

CROP FAILED.

### MEDIUM OR SECOND EARLY HALF DWARF, WRINKLED VARIETIES.

**ADVANCER**.—Height, 2½ feet. A green wrinkled variety, introduced some years ago, and has always given satisfaction.

Qt., 20c. Peck, \$1.00. Bus., \$3.50.

**EVERBEARING**.—Vines are about 2 feet high, of a branching character, forming as many as 10 stalks from a single root stalk. Peas large and of fine quality.

Qt., 20c. Peck, \$1.15. Bus., \$4.00.

**YORKSHIRE HERO**.—Height, 2½ feet. A wrinkled variety; productive, and of very superior flavor.

Qt., 20c. Peck, \$1.15. Bus., \$4.00.

**SHERROPSHIRE HERO**.—A grand new second early wrinkled Pea, producing long, handsome, well-filled pods in great abundance. Height, 2½ feet.

Pt., 15c. Qt., 25c. Peck, \$1.15. Bus., \$4.00.

**ABUNDANCE**.—Height, 30 to 36 inches. An excellent half-dwarf, medium early, wrinkled variety, pods 3½ inches long, containing 6 to 8 large Peas of excellent quality.

Qt., 25c. Peck, \$1.00. Bus., \$3.50.

**PRIDE OF THE MARKET**.—A medium early dwarf Pea of vigorous habit and very productive. The pods are large, of a medium green color, and contain 7 to 9 peas of fine quality; 1½ feet.

Pt., 15c. Qt., 30c. Peck, \$1.50. Bus., \$6.00.

**HORSFORD'S MARKET GARDEN**.—Height, 2½ feet. A medium early wrinkled variety, highly recommended.

Qt., 20c. Peck, 90c. Bus., \$3.50.

**IMPROVED STRATAGEM**.—Height, 2½ feet. A large, wrinkled, blue Pea, of excellent quality; very long, large, filled pods. More regular in its growth than the ordinary Stratagem, and in every way superior.

Qt., 35c. Peck, \$2.00. Bus., \$7.00.

**DWARF GREEN WRINKLED MAR-**  
**ROW**.—An excellent new wrinkled variety. Large pods and very productive.

Qt., 20c. Peck, \$1.15. Bus., \$4.00.



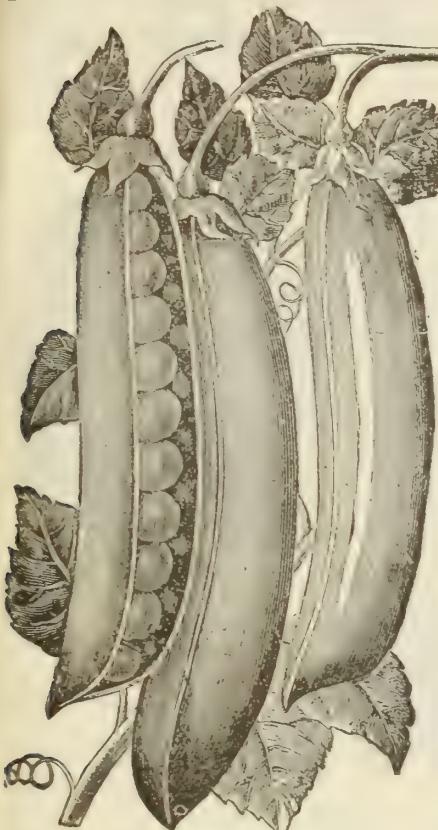
GARDENER'S FAVORITE.

**H**EIGHT, 30 to 36 inches. A wrinkled variety named and introduced by us, and which is constantly gaining friends; of most delicious flavor, prolific bearer, specially suited for the market garden trade. It is also attracting considerable attention with some of our leading canners, as when packed they find the quality to be superior to any other sort.

Pt., 15c. Qt., 20c. Peck, \$1.00. Bus., \$4.00.

## PEAS—Continued.

FULL GROWN, MEDIUM AND LATE VARIETIES.



HEROINE PEA.

**HEROINE PEA.**  
A medium early, green, wrinkled Pea, and one of the best of recent introduction; large, curved showy pods; an immense cropper; Peas of finest quality. Height, 2 to  $2\frac{1}{2}$  feet.  
Pt., 15c. Qt., 25c. Peck, \$1.35.  
Bus., \$5.00.

**TELEPHONE.**—Height, 3 to 4 feet. Large wrinkled seeds; pods large and well filled.  
Pt., 15c. Qt., 30c. Peck, \$1.50.  
Bus., \$5.50.

**TELEGRAPH, OR LONG ISLAND MAMMOTH.**—Resembles the Telephone in every respect, except they are a deeper shade of green. Pods are very attractive in appearance.  
Pt., 15c. Qt., 25c. Peck, \$1.50.  
Bus., \$5.00.

**CHAMPION OF ENGLAND.**—Height, 4 feet. An old favorite, rich flavored and very productive.  
Pt., 10c. Qt., 20c. Peck, \$1.00.  
Bus., \$3.75.

**FRENCH CANNER.**—Height,  $3\frac{1}{2}$  feet. The Celebrated Pea used in France by the canners. It is wonderfully prolific, bearing an abundance of long pods, containing seven to nine Peas of excellent flavor.  
Pt., 10c. Qt., 20c. Peck, 75c.  
Bus., \$2.50.

**IMPROVED SUGAR MARROWFAT PEAS (Genuine Stock).**—Height,  $3\frac{1}{2}$  feet. Grows a strong vine, bears in abundance large, filled pods. The truckers' favorite.  
Pt., 10c. Qt., 20c. Peck, 90c.  
Bus., \$3.00.

## EDIBLE PODDED OR SUGAR PEAS.

MELTING SUGAR—Edible Pods.

**T**HIS variety is ahead of all other Sugar Peas, not only in size of pod and prolific bearing, but also for its delicious flavor. It grows to the height of 5 feet, bears a profusion of very large, broad, handsome light-green pods, and are so brittle that they snap without any strings.  
Pt., 15c. Qt., 25c. Peck, \$1.50.

**TALL GRAY SUGAR** (Crop failed).—Edible pods; cooked in the pods same as Snap Beans.  
**DWARF GRAY SUGAR.**—Edible pods; quite a favorite. Pt., 15c. Qt., 25c.

## PUMPKIN.

**P**LANT in May, in hills 8 feet apart. Allot 10 seeds to each hill, as bugs often destroy the young plants, but only allow 2 to 3 healthy plants to remain in each hill. They are usually planted in fields with Corn or Potatoes.

## G. &amp; T. CO.'S MARYLAND SWEET POTATO.

**T**HIS is the best table Pumpkin in cultivation. In shape and size it somewhat resembles the Cashaw, but much more beautiful in color, being a handsome green and white stripe. The flesh is a rich yellow color, solid, fine-grained, very thick, flavor delicious.

Pkt., 5c. Oz., 15c.  $\frac{1}{4}$  lb., 25c. Lb., 85c.  
**LARGE CHEESE.**—Skin, reddish orange; flesh, thick, fine and sweet.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 60c.

**TENNESSEE SWEET POTATO.**—A splendid pie and cooking pumpkin. They grow pear-shaped of medium size, slightly ribbed; skin is creamy white, lightly striped with green; flesh very thick creamy white, dry and fine-grained, keeping well until late in the spring. When cooked resembles Sweet Potatoes, but much more delicious in taste.

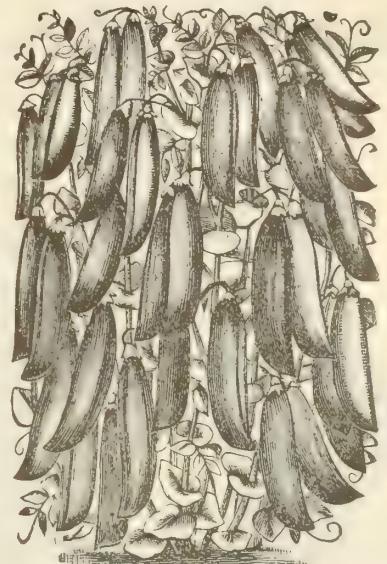
Pkt., 5c. Oz., 15c.  $\frac{1}{4}$  lb., 15c. Lb., 50c.

**CONNECTICUT FIELD.**—Very productive and grown for feeding stock. It is so well known that it does not need description.

Pkt., 15c. Qt., 20c. Lb., 25c.

**YELLOW CASHAW, OR CROOKNECK.**—Solid flesh, fine and sweet; keeps well.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 60c.



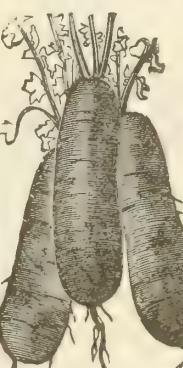
ADMIRAL DEWEY.

## ADMIRAL DEWEY.

Here we have a most excellent pea, with large, handsome pods; Peas of the highest quality. More dwarf than the Stratagem, and about a week earlier in maturing, regular and uniform in growth; vines stocky, healthy and of vigorous growth; pods long, frequently containing 10 Peas, of tender and delicious flavor. Don't fail to try it.

Pt., 20c. Qt., 35c. Peck, \$1.75.  
Bus., \$6.00.

## Radishes



**LONG BLACK SPANISH.**—A large winter variety; one of the hardiest, with dark green leaves, firm in texture, keeping until spring.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 50c.



**LARGE WHITE SPANISH, Winter.**—Fine keeping quality.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 50c.



**ROUND WHITE SPANISH.**—A good fall or winter variety.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 50c.

**ROUND BLACK SPANISH.**—A fine globe-shaped Radish, very popular with the Germans, known as Rettig; good quality.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 50c.

**SCARLET OLIVE-SHAPED RADISH.**—A showy half-long variety of pretty shape and bunches beautifully.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 60c.



G. &amp; T. CO.'S MARYLAND SWEET POTATO.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

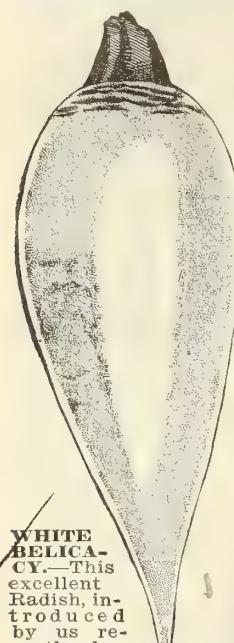
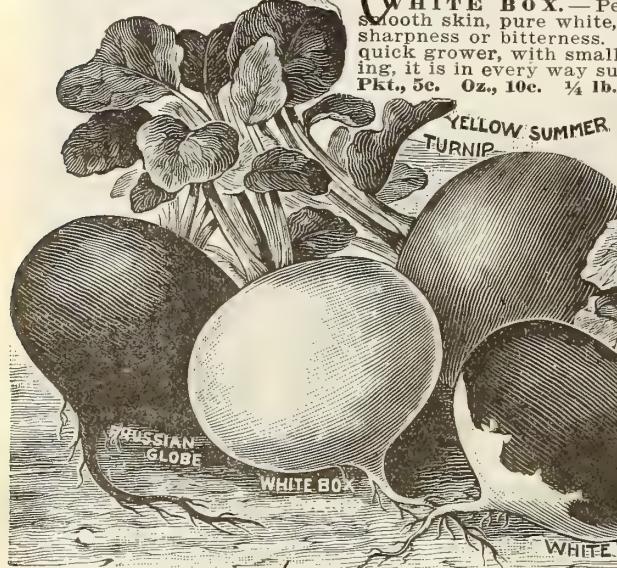
# RADISHES—Continued.

**GOLDEN GLOBE.**—An excellent summer Radish; slow to run to seed; shape globular, bright yellow color and mild flavor.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 50c.

**WHITE BOX.**—Perfectly round, smooth skin, pure white, free from any sharpness or bitterness. A remarkably quick grower, with small top. For forcing, it is in every way superior.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 50c.



**WHITE BELICA-CY.**—This excellent Radish, introduced by us recently, has proved itself all that has been claimed for it. It has become a great favorite with the truckers and market gardeners around Baltimore. Succulent, crisp, delicate, smooth and clean. Among the earliest spring varieties; an improvement on the White Strasburg, which it resembles, being more evenly shaped and smaller topped; grows into full size and perfection during the hottest months.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 60c.

**EARLY WHITE TIPPED SCARLET.**—An excellent variety for forcing, with very short leaves; bright scarlet in color, with a white tip. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 50c. 5 lbs., \$2.25.

**FRENCH BREAKFAST.**—Of oval form; color scarlet, white tipped. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 50c.

**EARLIEST WHITE TURNIP.**—For forcing. This and the Red Turnip bunch together very nicely. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 50c.

**EARLY SCARLET, OR PRUSSIAN GLOBE RADISH.**—This is the very best forcing variety; is sown largely by market gardeners and truckers, and they are delighted with it. It is of globular shape and brilliant, beautiful crimson color, short top, and will stand a large amount of heat without becoming pithy. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 50c.

**WHITE STRASBURG.**—This is becoming one of the most popular summer sorts; it is of handsome tapering shape, skin pure white; very tender. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 50c.

**CHINESE ROSE WINTER.**—Remarkably fine for winter use. The best of the winter sorts. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 50c.

**WHITE CHINESE WINTER, OR CELESTIAL.**—An excellent white winter Radish; a good keeper. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 20c. Lb., 60c.

**GIANT STUTTGART.**—A splendid new variety, of excellent quality; withstands summer heat. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 50c.

**CINCINNATI MARKET NEW GLASS RADISH.**—Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 45c. 5 lbs., 40c. Lb.

**WHITE VIENNA, OR LADY FINGER.**—This is unquestionably the finest long white Radish. Of most handsome shape; color a beautiful snow white.

It is of very rapid growth, and remarkably crisp, brittle and tender, equally desirable for the market or home garden.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 50c.

**LONG SCARLET (Finest Grown).**—Very attractive, and sells readily. Owing to its handsome shape, brilliant color and fine qualities it commands a higher price and more ready sale than the ordinary Long Scarlet, as generally sold.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 35c. 5 lbs., \$1.50.

**CHARTIER.**—A good variety for private or market garden purposes. Stands long before going to seed, and is tender and crisp.

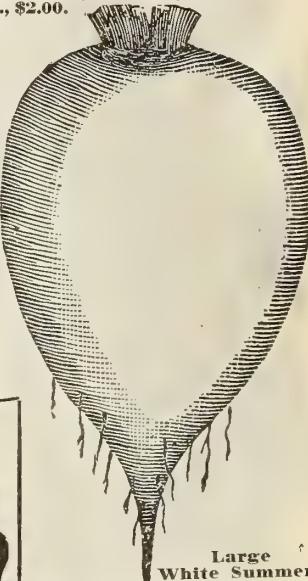
Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 50c.

**FOR** an early supply sow in hot-bed in February. For a successive supply sow from middle of March to September. Radishes thrive best in light, rich, sandy loam. The radish must make a rapid growth to be fit for use; it will then be crisp and tender and of a mild flavor. If it grows slowly it will be hard, fibrous and disagreeably pungent.

**LARGE WHITE SUMMER, The Great Summer Radish.**—This is the most popular white Radish for summer use with the gardeners around Baltimore, because of its handsome appearance and ready sale, and its well-known quality of being slow to run to seed. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c. Lb., 40c. 5 lbs., \$2.00.

**TRIUMPH RADISH**

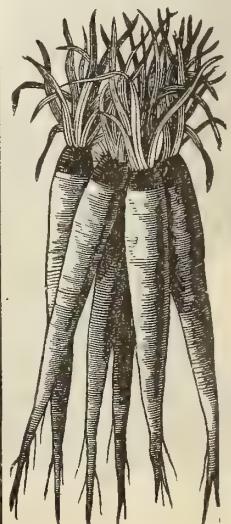
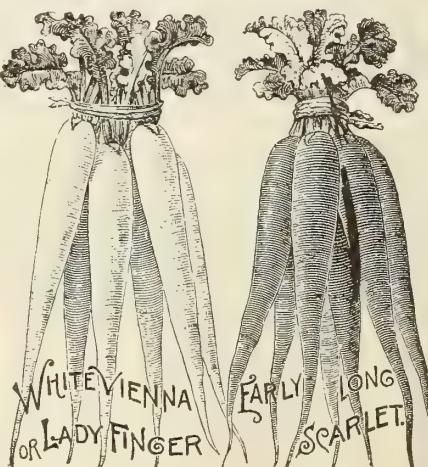
**Striped, Red and White.**—This is a beautiful and odd Radish, which, when mixed in the bunch with Scarlet Radishes, makes a pleasant contrast. The Radishes are globe shaped and strikingly handsome, having bright scarlet stripes on a white ground. It is a splendid forcing variety, with short top, small leaves, and matures quickly. It is very ornamental for table use. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 25c.



**SOW** in early spring in light, rich soil in drills 14 inches apart and thin the plants to 6 inches in the row. The roots will be ready for use in October and will sustain no injury by being left in the ground during the winter.

**SANDWICH ISLAND MAMMOTH.**—This new Salsify grows fully twice the size of the old sort, and is superior in quality. Invaluable to market gardeners. Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 40c. Lb., \$1.25.

**LARGE WHITE.**—The old well-known variety. Pkts., 5c. and 10c.  $\frac{1}{4}$  lb., 40c. Lb., \$1.00.



**SALSIFY OR VEGETABLE OYSTER.**

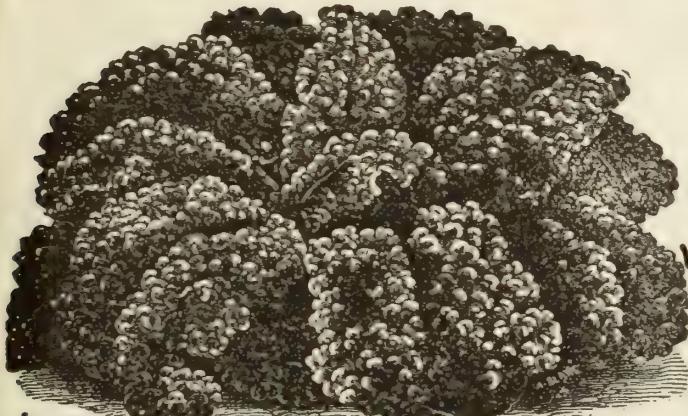
RHUBARB, — OR — PIE PLANT.

SOW in April in drills one inch deep and one foot apart. When plants are large enough, thin to ten inches apart, and cultivate three feet apart each way.

Pkt., 10c. Oz., 15c. 1-4 lb., 40c. Lb., \$1.50.

# SPINACH.

All Prices of Seeds  
in This Catalogue  
Are Subject to  
Change Without  
Notice.



G. T. & CO.'S EXTRA CURLLED AMERICAN GROWN SAVOY SPINACH.—This is grown specially for us, and is without exception the best type of Savoy Spinach in existence. It is beautifully curled and wrinkled, the leaves large, thick and heavy, produced in great numbers, and stands handling and transportation better than any other sort; in fact, we hardly think we could say too much about this valuable acquisition to the spinach family. Sold only in sealed bags.

Pkt., 5c. 1-4 lb., 15c. Lb., 35c.

VICTORIA SPINACH.—This new spinach comes to us with the highest recommendations from the growers. The foliage is heavy, the broad, dark green leaves being of the true Savoy appearance, and of the finest quality, but the most remarkable feature that will make it of special value, both for market and family gardens, is the fact that it is in prime condition from two weeks to three weeks after all other varieties of spinach have run to seed.

Pkt., 5c. 1-4 lb., 10c. Lb., 20c.

WRITE FOR SPECIAL PRICES IN QUANTITIES.

# SQUASH.

THE Squashes are all quite tender, and therefore no progress can be made in starting them until the weather becomes somewhat warm and settled. Plant in hills five feet apart each way for the bush varieties, and eight feet for the running varieties; put eight seeds to the hill, but don't allow over three to stand.

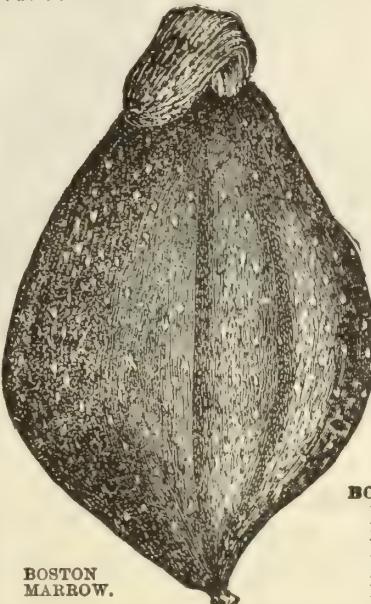


EARLY WHITE BUSH SCALLOP.—A desirable and marketable sort. Best known and most productive of all the summer sorts.

Pkt., 5c. Oz., 10c. 1/4 lb., 15c. Lb., 50c.

EARLY YELLOW BUSH SCALLOP.—An early, flat scallop-shaped variety; color yellow, flesh pale yellow and well flavored, very productive; used when young and tender.

Pkt., 5c. Oz., 10c. 1/4 lb., 15c. Lb., 50c.



BOSTON MARROW.



SUMMER CROOK NECK (Early).—Fine flavor; a desirable table sort. Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 50c.

WINTER CROOK NECK.—Flesh red, fine flavor; largely grown for winter use. Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 60c.

HUBBARD.—Fine and desirable for winter use. Pkt., 5c. Oz., 15c. 1-4 lb., 20c. Lb., 75c.

BOSTON MARROW.—A fall and winter variety, very popular in the Boston market. Of oval form, skin thin, when ripe, bright orange mottled with light cream color, flesh rich salmon yellow, fine grained, and for sweetness and excellence unsurpassed, but not as dry as the Hubbard. Fine for pies or baking.

Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 50c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

# TOMATO—Extra Early Red Varieties.

For early fruit sow the seed in March or April, in the hotbed or in pots in a sunny exposure in the house. When the plants are about three or four inches high they should be set out four or five inches apart in another hotbed or cold frame or removed into small pots, allowing a single plant to a pot. Expose to the air as much as possible to harden, and about the middle of May set the plants in the open ground at a distance of four or five feet each way. Water freely at the time of transplanting, and shelter from the sun for a few days until the plants are established. Sufficient plants for a small garden may be had by sowing a few seeds in a shallow box or flower pot and placing in a sunny window in the house. Cultivate thoroughly as long as the vines will permit.

Tomatoes will admit of training to stakes or trellis of various kinds, and the fruit is very much improved both in appearance and quality. This mode of cultivation is now quite common among gardeners who grow for early market. The usual method is to set one strong plant to a stake, using stakes five to seven feet in height, tying the plant up with wool or other strong, soft twine, pruning out quite freely as the vines advance in growth. By adopting this method the plants may be set much closer than in the ordinary way.



**SPARKS' EARLIANA.**—The earliest bright red Tomato; very large, smooth color, bright red; solid and excellent for slicing. The plants are of moderate growth, well set with fruits, nearly all of which ripen extremely early in the season. Grows in clusters; of medium size; smooth, solid, solid center, small seed cells, slightly acid. **Packets, 5c. and 10c.** **Ounce, 35c.  $\frac{1}{4}$  lb., \$1.00. Pound, \$3.50.**

## EXTRA EARLY PURPLE VARIETIES.

**BEAUTY.**—For early market and shipping this cannot be excelled, because of its solidity and toughness of skin. Color is a rich, glossy crimson, with a slight tinge of purple. It is well known and very largely used by our gardeners. **Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 40c. Lb., \$1.50.**

**MAGNUS.**—A fine medium crop variety; has Acme color; heavy; solid; fruit is set in clusters; heavy cropper and very robust. **Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 60c. Lb., \$1.50.**

**DWARF CHAMPION.**—Dwarf, upright growth; smooth purple fruit. **Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.50.**

**PRIZETAKER.**—Early; large; handsome; deep crimson; slight tinge of purple. **Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 40c. Lb., \$1.25.**

## MEDIUM EARLY VARIETIES.

**PRIZEWINNER.**—Purple; early; prince of market Tomatoes; color resembles Beauty, but larger; solid; one of the best keepers and shippers; smooth; well adapted for late crop. **Pkt., 10c. Oz., 20c.  $\frac{1}{4}$  lb., 60c. Lb., \$1.75.**

**MONARCH.**—Remarkable for size; fruits heavy; deep red; flesh thick, solid and fine quality. **Pkts., 10c. Oz., 30c.  $\frac{1}{4}$  lb., \$1.00.**

**ACME.**—Purple; early; medium; pink-purplish; slightly oval. **Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.50.**

**CRIMSON CUSHION.**—Resembles Ponderosa in shape and size; color deep red. **Pkt., 10c. Oz., 35c.  $\frac{1}{4}$  lb., 75c.**

**BUCKEYE STATE.**—Purple; productive, but not very solid; large, smooth. **Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.75.**

**GOLDEN QUEEN OR SUNRISE.**—**Pkts., 5c. and 10c. Oz., 25c.  $\frac{1}{4}$  lb., 75c.**

**LORILLARD.**—Best for greenhouse forcing; bright, glossy red; very smooth. **Packet, 10c.**

## SMALL FRUITED VARIETIES.

**PEAR-SHAPED RED.**—**Pkts., 5c. and 10c. Oz., 25c.  $\frac{1}{4}$  lb., 75c.**

**PEAR-SHAPED YELLOW.**—Used for preserves and pickles. **Pkts., 5c. and 10c. Oz., 25c.  $\frac{1}{4}$  lb., 75c.**

**YELLOW PLUM.**—Color bright yellow; excellent for preserving. **Pkts., 5c. Oz., 25c.  $\frac{1}{4}$  lb., 75c.**

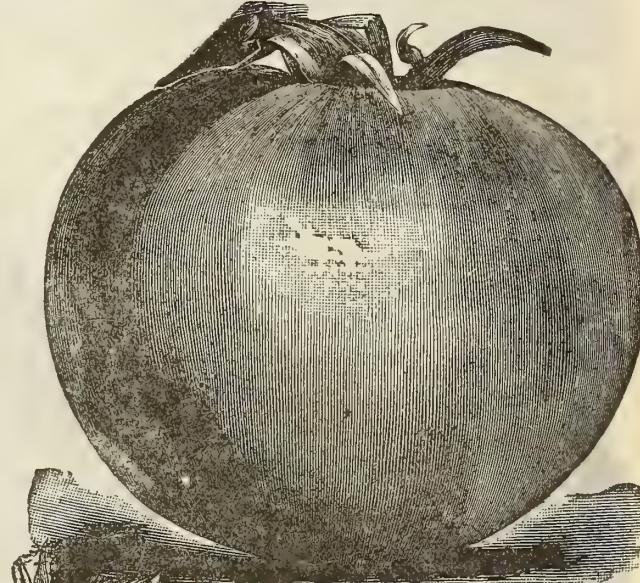
**CHALK'S EARLY JEWEL.**—Deep-fruited and solid. The growth is very compact. Fruit of uniformly good size; very solid; brightest scarlet, ripening up to the stem without cracks or green core; sweet flavor. **Pkts., 5c. and 10c. Oz., 35c.  $\frac{1}{4}$  lb., \$1.00. Lb., \$3.50.**

**MAULE'S EARLIEST.**—New; very fine; extra early; very prolific; fruits large size; excellent for shipping. **Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 65c. Lb., \$2.50.**

**EARLY MICHIGAN.**—Vines large, with large, dark green leaves, vigorous and wonderfully productive; under high culture one of the heaviest croppers; fruit medium to large size; unlike most varieties, grows larger as the season advances; perfectly smooth, solid, but without core; deep rich red color; of excellent flavor. Its first fruits are very early, but the vines continue to bear for a long time. **Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 65c. Lb., \$2.00.**

**NEW SUCCESS.**—A magnificent new scarlet-fruited Tomato of finest quality, handsome appearance, large size and great productiveness. The vines are of strong, vigorous growth with abundant foliage; fruit set in clusters; color brightest scarlet; perfectly smooth and free from cracks; the interior is very meaty, of fine flavor. It ripens with the second earlies and yields abundantly throughout the season. The handsome color, even size and great solidity of Success makes it an excellent market sort. It is well adapted also to canners' use by reason of rich deep-red color, solidity of flesh and desirable form for rapid peeling without waste. **Pkts., 5c. and 10c. Oz., 25c.  $\frac{1}{4}$  lb., 75c. Lb., \$2.50.**

**ATLANTIC PRIZE (Select Stock).**—An excellent extra early red Tomato, and while it does not run as regularly and smoothly as the Paragon, it ripens very evenly. **Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 40c. Lb., \$1.50.**



## EXTRA EARLY RUBY.

This new variety came to our notice last season, and after giving it a thorough test we consider it the best all-round early Tomato in existence. While not as early as the Sparks' Earliana by a week or ten days, it is far superior in quality, size, shape, flavor and productiveness. In color, ruby red, nearly globe-shaped; solid flesh throughout, and with very few seeds and free from acidity; it makes a splendid main crop variety; a great keeper and shipper. We have secured a limited supply of the seed, and will only put them up in 10c. packages,  $\frac{1}{4}$  ounces, ounces and  $\frac{1}{4}$  lbs., to enable it to be disseminated among a greater number of planters. The extremely large returns will fully justify the progressive trucker in trying a small quantity.

**Package, 10c. 1 ounce, 60c.  $\frac{1}{4}$  lb., \$2.00.**

## TOMATO—Main Crop Varieties.



**THE NEW STONE TOMATO.**—Ripens for main crop; is very large and of bright scarlet color; very smooth, with occasionally a specimen very slightly octagon-shaped, ripening evenly to the stem without a crack; exceedingly solid and firm-fleshed (as its name indicates). It is an excellent shipper; fine for canning; a good keeper; not subject to rot.

Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.50.

**NEW QUEEN TOMATO.**—Fruit somewhat resembles Paragon in appearance. This sort is well known and a favorite among canners, but it is not as deep red in color nor as weighty and solid as our World's Fair.

Pkts., 5c. and 10c. Oz., 15c.  $\frac{1}{4}$  lb., 40c. Lb., \$1.25.

**BINTON'S BEST.**—One of the leading sorts for second early and late use; the fruit is large, handsome, and a splendid keeper. A great favorite with canners and truckers.

Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.50.

**LIVINGSTON'S FAVORITE.**—Bright red, smooth Tomato of good size.

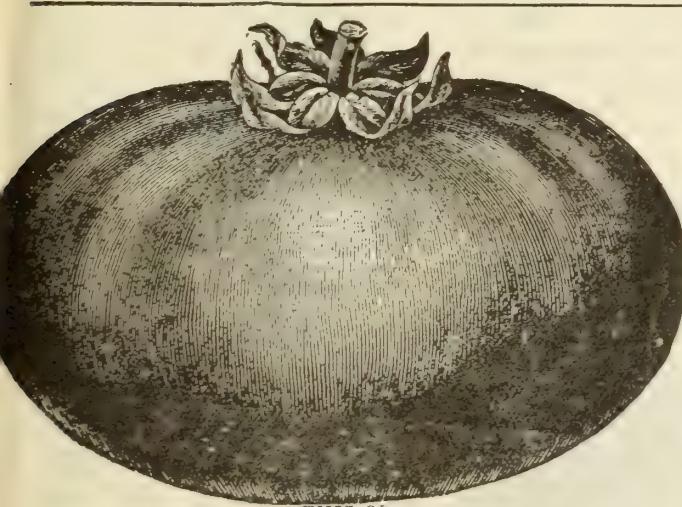
Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.50.

**PARAGON.**—Well-known standard bright red Tomato.

Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.50.

**ROYAL RED.**—New; resembles Favorite in form and color; good main crop variety.

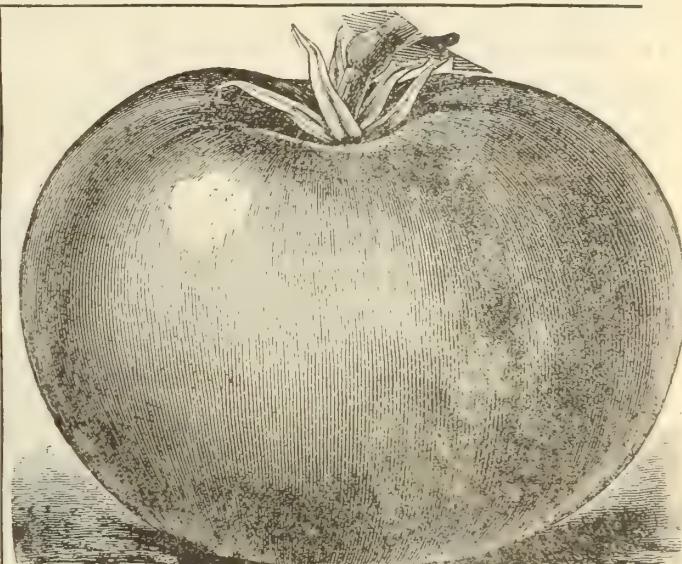
Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 50c. Lb., \$1.75.

**Griffith & Turner Co.'s World's Fair.**

The great canner. The six great points of this great canner, solidity, symmetry, handsome, bright red, ripens uniform, free from rot. Its shipping and keeping qualities are unexcelled.

The planters now demand this great Tomato, notwithstanding the fact that there are many very much newer varieties. Yet it has been so successful that it is preferred above all others. The fruit is particularly solid and of fine flavor, good size, smooth, and certainly very attractive.

Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 60c. Lb., \$2.25.



**MATCHLESS.**—The color is rich red. The skin is so tough that it makes a splendid keeper and shipper, and is less liable to crack in wet weather than any other large Tomato. Unsurpassed for market or table; strong grower and very productive, bearing with undiminished vigor until frost. The fruit is free from core and the seed spaces comparatively small.

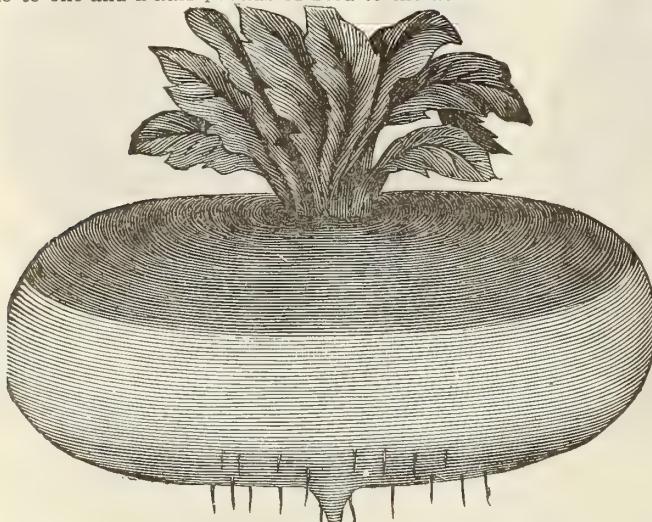
Pkts., 5c. and 10c. Oz., 20c.  $\frac{1}{4}$  lb., 60c. Lb., \$2.00.

**HERBS**

—Sow in spring in shallow drills, one foot apart, and when well up thin out or transplant to a proper distance.							
Pkts.	Oz.	$\frac{1}{4}$ Lb.	Lb.	Pkts.	Oz.		
5c.	15c.	40c.	\$1.25	5c.	10c.	$\frac{1}{4}$ Lb.	\$0.65
5c.	10c.	25c.	....	5c.	10c.	15c.	.50
5c.	10c.	15c.	....	5c.	15c.	....	1.25
BENE, use medicinally.	5c.	15c.	....	5c.	25c.	....	....
BORAGE, excellent for bees.	5c.	15c.	40c.	5c.	10c.	25c.	....
CARAWAY	5c.	10c.	25c.	....	5c.	15c.	40c.
CHERVIL	5c.	25c.	....	5c.	10c.	25c.	.75
CHICKORY	5c.	10c.	....	5c.	10c.	20c.	....

# G&T TURNIP

FOR early use, sow the small sorts as soon as the ground can be worked in the spring, in drills 14 inches apart, the Rutabagas 30 inches. As the seed is very fine, it should be covered but slightly, excepting in very dry weather. Select light, and, if possible, new soil, and manure with plaster and ashes or phosphates. Should the young plants be troubled with insects, a sprinkling of slug shot will be beneficial. For fall and winter use the early kinds should be sown, from the middle of July to the middle of August, and the Rutabagas from the middle of June to the first of July, using from one to one and a half pounds of seed to the acre.



WHITE AND PURPLE TOP STRAP-LEAF.

**EARLY RED TOP FLAT.**—Fine, sweet, mild; rapid grower; very early and popular.

Pkt., 5c.  $\frac{1}{4}$  lb., 10c.  $\frac{1}{2}$  lb., 15c. Lb., 25c.

**EXTRA EARLY PURPLE TOP MILAN.**—The earliest and handsomest Flat Turnip in cultivation; none equal to it for spring sowing.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c.  $\frac{1}{2}$  lb., 25c. Lb., 45c.

**WHITE FLAT (Strap Leaf).**—Differs from Red Top only in color.

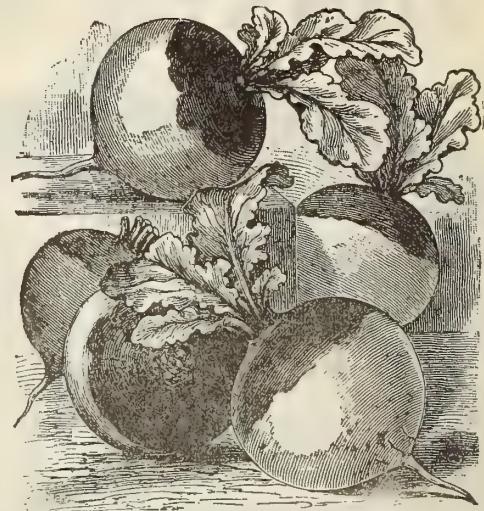
Pkt., 5c.  $\frac{1}{4}$  lb., 10c.  $\frac{1}{2}$  lb., 15c. Lb., 25c.

**EARLY WHITE EGG.**—A new variety of rapid growth; egg-shaped and white, as its name indicates.

Pkt., 5c. Oz., 10c.  $\frac{1}{4}$  lb., 15c.  $\frac{1}{2}$  lb., 25c. Lb., 50c.

**COW HORN (Large Croppers).**—This variety is pure white, excepting a dash of green at the crown, and in shape is long, like the carrot.

Oz., 5c.  $\frac{1}{4}$  lb., 10c.  $\frac{1}{2}$  lb., 15c. Lb., 25c.



RED TOP WHITE GLOBE.

**LARGE EARLY RED TOP GLOBE.**—A variety of recent introduction. Of large size, rapid growth, unusually attractive. Approved and admired by all who have seen it. A very much heavier producer than either of the Flat varieties and quite as early as the Flat Red Top. Very few market gardeners will have any other kind. Pkt., 5c.  $\frac{1}{4}$  lb., 10c.  $\frac{1}{2}$  lb., 15c. Lb., 25c.

**YELLOW ABERDEEN, or SCOTCH YELLOW.**—This is a highly approved Cattle Turnip, attaining a large size. It is solid, nutritious, a good keeper, and in every respect reliable.

Pkt., 5c.  $\frac{1}{4}$  lb., 10c.  $\frac{1}{2}$  lb., 15c. Lb., 25c.

**LARGE AMBER, or YELLOW GLOBE.**—Grows to a large size; flesh yellow, firm and fine-grained. Excellent for either table use or feeding stock.

Pkt., 5c.  $\frac{1}{4}$  lb., 10c.  $\frac{1}{2}$  lb., 15c. Lb., 25c.

**SEVEN TOP.**—For greens and salads. Used largely in the Southern States.

Pkt., 5c.  $\frac{1}{4}$  lb., 10c.  $\frac{1}{2}$  lb., 15c. Lb., 30c.

**SOUTHERN PRIZE.**—True strain of the favorite Turnip for greens in Virginia and the Carolinas. Valued also for its bulk.

Oz., 5c.  $\frac{1}{4}$  lb., 15c. Lb., 35c.

## RUTA BAGAS OR SWEDES.

THE Swede Turnips, or Rutabagas, grow much larger in size, and are of greater value for stock feeding than ordinary turnips. Every farmer and stock-raiser should grow Rutabagas and Stock Beets for winter feeding.

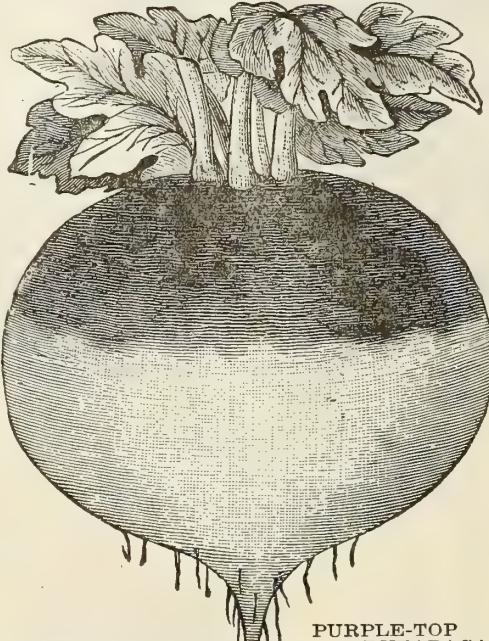
**GRIFFITH & TURNER CO.'S  
IMPROVED PURPLE TOP.**

Yellow fleshed. A standard field variety for stock and fine for family use. This splendid Swede is the hardest, most productive and most nutritious variety in cultivation.

Pkt., 5c.  $\frac{1}{4}$  lb., 15c. Lb., 35c.

**YELLOW RUTABAGAS.**—An old standard sort of good quality.

Pkt., 5c.  $\frac{1}{4}$  lb., 10c.  $\frac{1}{2}$  lb., 15c.  
Lb., 25c.

PURPLE-TOP  
RUTABAGA.

## Vegetable Roots

### ASPARAGUS ROOTS.

A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family; 7260 roots will plant an acre. Select good, loamy soil, plow deep, put in good quantity of manure and 100 pounds of kainit to 1000 square feet of bed. Incorporate thoroughly, make a trench 8 inches deep, set plants 9 inches apart. In field culture rows are placed 4 feet apart.

**Barr's Mammoth.**—Per 100, 75c.  
Per 1000, \$5.50.

**Palmetto.**—Per 100, 70c. Per 1000,  
\$5.00.

**Colossal.**—Per 100, 70c. Per 1000,  
\$4.50.

**Mammoth White.**—Per 100, 75c.  
Per 1000, \$5.50.

Extra size roots, 50c. per 1000 additional to above prices.

**ARTICHOKEs (Jerusalem).**—Pk., \$1.00. Bus., \$2.50. For further information see page 1.

**HORSE RADISH ROOTS.**—Doz.,  
20c. Per 100, 75c. Per 1000, \$6.00.

**RHUBARB ROOTS.**—15c. each.  
Doz., \$1.50.

# MAINE OR NORTHERN GROWN SEED POTATOES.

The soil best suited to the Potato is a rich, sandy loam, but it seems to thrive in almost any soil or climate. The Potato being a gross feeder, requires a liberal application of manure. If stable manure is to be used, it should be well rotted, and not allowed to come in contact with the tubers. On no other crop are the results from the use of phosphates so manifest as on the Potato. Almost invariably the tubers are smoother, brighter and freer from rust and the destructive influence of wire worms. **GRIFFITH & TURNER CO.'S PLANT FOOD** is especially adapted for Potatoes, as it promotes growth and at the same time prevents disease. Plant as early in the spring as the ground can be thoroughly worked in rows three feet apart and one foot in the rows, covering in light, warm soil about four inches and in cold, wet ground three inches deep; draw the earth to the plants as they advance in growth. The soil should be constantly stirred through the season to prevent the surface from baking.



**G. & T. CO.'S EXTRA EARLY PRIZE.**—This Potato is in all respects a very superior early sort. It proved to be the earliest and most productive of any we tried; also found its eating qualities first class. We consider it the best early Potato on the market today. **Peck, 60c. Bushel, \$1.50. Barrel, \$4.00.**

**BLISS TRIUMPH.**—This beautiful variety combines the wonderful productiveness of the Peerless with all the good qualities of the Early Rose; is much more productive and matures its crop at least a week in advance of the Early Rose. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.**

**MAINE, or HOUTON EARLY ROSE.**—The Early Rose led the list for over 30 years, and is today one of the best early market Potatoes. Our stock of this is grown on new land, near Houlton, Maine; is rugged and pure, and produces as good crops as those which made the Early Rose famous in its early years. Remember that this stock is not to be confounded with the old run-out Rose, grown in other sections. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.50.**

**EARLY OHIO.**—This is very early and productive, of fine quality, and an excellent keeper. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.**

**EARLY BOVEE.**—One of the earliest varieties; good size, very smooth, uniform, perfect shape; eyes shallow, light skin and white flesh. Cooks dry and floury; of superb quality; a great yielder and healthy grower. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.**

**CROWN JEWEL.**—Very early and prolific; skin pinkish white. One of the best for early market. It is planted very largely in this vicinity and the South. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.**

**WHITE BLISS TRIUMPH, or PRIDE OF THE SOUTH.**—Extra early round white; identical with the Red Bliss, only different in color. A very fine variety for early market or family garden. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.**

**BEAUTY OF HEBRON.**—Very rapid and vigorous grower, ripening as early as Early Rose, which it resembles, but frequently exceeds in productiveness and excellence for table use, either baked or boiled. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.50.**

**EARLY PURITAN.**—A distinct and early variety; both skin and flesh white; quality superb, dry and floury; immense cropper. Fine for market gardeners. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.**

**EARLY HARVEST.**—This beautiful new early Potato is a heavy yielder for an early variety; good size, nearly white. A good one for the market garden. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.**

**G. & T. CO.'S BOUNTIFUL.**—The finest middle crop variety yet introduced. Before putting it on the market we have given it a thorough test and are convinced of its superior qualities. A heavy cropper, yielding large, smooth, handsome tubers. **Peck, 60c. Bushel, \$1.50. Barrel Sack, \$4.00.**

**EARLY NORTHER.**—This superb Potato originated at Caribou, Maine. It resembles the Early Rose in shape and color, matures earlier than the Rose, and is much more productive. Under our own observation the past season it yielded more than the Rose, matured earlier, and was in all respects superior. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.50.**

**NEW YORK EARLY ROSE.**—A leading variety for earliness, quality and productiveness. **Peck, 50c. Bushel, \$1.50. 2 Barrel Sack, \$3.50.**

**IRISH COBBLER (A New Sort).**—Very productive, matures ahead of the Early Ohio. Shape chunky, eyes strong and deeply set, skin netted, flesh white, quality very superior. The writer's attention was called to this variety while on a tour of inspection, and we concluded to place it in our collection, and find after two years' experience that it is a very superior variety. Don't fail to get it. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.**

**PROSPERITY.**—A middle-crop variety, one of the handsomest large Potatoes ever produced. The yield is immense, and even under unfavorable circumstances can be relied on. Flesh very white; cooks dry and mealy. **Peck, 60c. Bushel, \$1.25. Barrel Sack, \$3.25.**

**RURAL NEW YORKER, No. 2.**—A valuable variety of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we recommend it highly. **Peck, 50c. Bushel, \$1.25. Barrel Sack, \$3.25.**

**BURBANK.**—This is an old and reliable variety, and is A No. 1 for a late, large-yielding, good-keeping Potato, and for table use, after January 1, is one of the best. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.50.**

**NEW QUEEN.**—A grand Potato of recent introduction, closely resembling Beauty of Hebron in appearance, color, size and shape, but is 7 to 10 days earlier, and a heavy yielder. Our seed of this variety comes from Maine, where it originated, and is pure and true to name. **Peck, 60c. Bushel, \$1.50. Barrel Sack, \$3.50.**

**GREEN MOUNTAIN.**—A fine late sort. **Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.25.**

## Sweet Potatoes.

CHOICE JERSEY SWEETS AT MARKET PRICES DURING SEASON. WRITE FOR QUOTATIONS.

## Second Crop Southern Grown Seed Potatoes.

SINCE we have been advertising the Second Crop Seed we often have been asked what it signified, and for the benefit of those who do not seem to know we will state that they are the product of the first planting in the spring, planted again as soon as dug and the result from that planting stored away in the fall for next season's use.

The advantage derived from second seed over first crop is that they do not sprout or shrivel or lose any of their vigor through the winter, having been checked by frost before maturity; they lie dormant, ready to grow vigorously when planted. They rarely send up more than one sprout; this may divide into several branches. The consequence is all the growth goes into the tubers, which grow to full marketable size 12 to 15 days earlier than ordinary seed.

The results from the planting of this seed have been so remarkable that our sales in consequence have grown much beyond our expectations.

The following varieties are grown from first crop Northern stock:

**CROWN JEWEL.**—This is a seedling of the Early Ohio. Skin white, with a flesh tint; meat white and floury, cooking evenly through. A very early bearer, and its keeping qualities are equal to the best. Peck, 50c. Bushel, \$1.60. Barrel, \$4.00.

**EARLY ROSE.**—Peck, 50c. Bushel, \$1.60. Barrel, \$4.00.

**EARLY PURITAN.**—A splendid early sort; fine, white and prolific, producing large crops of handsome, smooth tubers. Peck, 50c. Bushel, \$1.60. Barrel, \$4.00.

Potato prices are subject to change without notice. Special prices quoted on application. Owing to the high price of barrels we are shipping potatoes in barrel sacks.

## Seed Wheat and Rye.

We can offer choice stocks of Seed Wheat and Rye, re-cleaned, and at reasonable prices. Write us August 1 for special prices for fall sowing.

## OATS.

Thirty-two Pounds to the Bushel.  
**FANCY NEW YORK AND MICHIGAN WHITE.**—A very productive variety of extraordinary weight.

Per Bushel (32 lbs.), \$1.00.

**CHOICE WHITE.**—Market prices. Bus. 32 lbs.

**BLACK OR MIXED.**—Bus. 32 lbs. Market prices.

**GOOD SEED OATS.**—Unnamed varieties.

## WINTER TURF OATS.

Perfectly hardy in the Southern and Middle States, standing the winter nearly as well as wheat. Yields, on good land, from 50 to 70 bushels to the acre, of fine, heavy grain, weighing from 30 to 40 pounds to the measured bushel. Furnishes excellent fall, winter and early spring grazing, without injury to the grain crop. Write for prices 1st of August.

## SEED BUCKWHEAT.

**JAPANESE.**—The best sort. The plants are large and vigorous, maturing their seed early, and resisting drought and blight remarkably well, while the grain is much larger and at the same time has a thinner hull than the common or the Silver Hull. Owing to its branching character, only one-half the seed is required per acre, while the straw is much stiffer and stands up better. We recommend this especially for well-drained or sandy land, and the dry climate of the Western plains. \$1.50 per Bus. 10 Bus. at \$1.35 per Bus.

**SILVER HULL.**—Same price as above.

## BARLEY.

**BEARDLESS SPRING BARLEY.**—Sow as soon as frost is out of the ground, the earlier the better. Being beardless, it handles as easy as oats and makes a stronger feed. By Express or Freight, Peck, 50c.; Bus., \$1.50. Bags, 20c.

**FALL BARLEY.**—Sow about first of September before sowing Wheat in order to get best results. Write for prices.

# YELLOW CORN.

**CHESTNUT GROVE YELLOW CORN.**—This Corn was grown on Chestnut Grove Farm, Baltimore County, and the average yield from the whole crop was 20 1-16 barrels to the acre. The ears are large, deep, medium-sized grain, and of beautiful color. Qt. 10c. Peck, 60c. Bus., \$1.75. 4 Bus., \$6.00.

**G. & T. CO.'S MAMMOTH YELLOW CORN.**—The largest, most prolific yellow Corn in existence; the ears attain an average length from 12 to 15 inches, and make a crop in 110 to 120 days, growing medium-sized fodder; very deep grain. Qt. 15c. Peck, 60c. Bus., \$1.75. 4 Bus., \$6.00.

## IMPROVED MARYLAND YELLOW DENT.

**OUR MARYLAND DENT CORN** has taken first premium over all other field Corn wherever exhibited. The grains are unusually deep, ears large, stalks grow from 7 to 10 feet high, does not exhaust soil so much, and will stand drought better than a large stalk, and will yield 5 to 10 bushels per acre more than any other Corn generally planted. Qt., 10c. Peck, 50c. Bus., \$1.50. 4 Bus., \$5.50.

**EARLY LEAMING.**—An early selected variety of yellow Corn, small grain, weighty and productive. Highly esteemed in Maryland and Pennsylvania. One of the earliest varieties of yellow Corn in cultivation. Qt., 10c. Peck, 50c. Bus., \$1.50.

**GOLDEN BEAUTY.**—As usually sold, but not to be compared with G. & T. Co.'s Improved Golden Beauty. Qt., 10c. Peck, 50c. Bus., \$1.25.

**G. & T. CO.'S IMPROVED GOLDEN BEAUTY.**—A large, broad-grained yellow Corn, with ears of perfect shape and small cob. The richness of color and the quality of the grain make it a very superior variety. Qt., 10c. Peck, 50c. Bus., \$1.50. 4 Bus., \$5.50.

**90-DAY YELLOW.**—This is an excellent quick-growing variety. May be planted after peas are taken off, and make a good crop. Largely used by truckers around Baltimore. Qt., 10c. Peck, 50c. Bus., \$1.50.

**POP CORN.**—The best kind for popping. Lb., 10c. 4 lbs., 25c. By mail, 20c. per pound.

# WHITE CORN.

**G. & T. CO.'S IMPROVED MARYLAND WHITE DENT CORN.**—After years of careful selection we have secured this improved White Field Corn: grows good-sized ears and makes splendid meal. Produces better crops on average land than most any other variety. Qt., 10c. Peck, 50c. Bus., \$1.50. 4 Bus., \$5.50.

**MARYLAND WHITE CORN.**—As usually sold, an old standard variety. Qt., 10c. Peck, 50c. Bus., \$1.25.

**BEST TWIN EAR.**—The large fodder produced by this variety makes it a fine ensilage Corn. Produces two fully-developed ears to the stalk. Qt., 15c. Peck, 50c. Bus., \$1.50. 4 Bus., \$5.50.

**SOUTHERN SNOWFLAKE.**—A well-known and very popular Corn through the South. Suitable for meal or feeding purposes; the best white Corn for poor land. Qt., 10c. Peck, 50c. Bus., \$1.50. 4 Bus., \$5.50.

**90-DAY CORN (Red Cob).**—This is an elegant Corn for truckers and market gardeners, as it is a good seller as green Corn. Is suitable for either early or late crop. Qt., 15c. Peck, 50c. Bus., \$1.50.

**HICKORY KING WHITE CORN.**—Produces very large, broad, flat white dent grains, which are closely placed on a very slender cob. Qt., 10c. Peck, 50c. Bus., \$1.75.

## WHITE ENSILAGE CORN.

Specially adapted for ensilage. Bus., \$1.50.

**MAMMOTH YELLOW ENSILAGE CORN.**—Especially adapted for ensilage, as it grows large fodder and blades; preferred by many to the white. Qt., 10c. Peck, 50c. Bus., \$1.50.

# OUR SPECIAL GRASS MIXTURE FOR HAY AND PERMANENT PASTURES.

**RED TOP, OR HERD'S GRASS (*Agrostis vulgaris*)**—This grass makes excellent pasturage and good crop of fine quality hay, and succeeds on a greater variety of soils than any other grass in general use, giving very good results on light soils and the very best results on heavier, moist, or low ground soils. It is rather late in starting in the spring and matures its crop at the same time as Timothy. Is excellently adapted for seeding with Timothy for hay, and furnishes excellent pasturage afterwards. When it gets well established it will gradually supplant other grasses. The grades of seed usually sold are:

**CHAFF RED TOP**.—Seed in chaff.

**EXTRA CLEANED UNHULLED RED TOP**.—Seed in hull, but free of chaff and impurities.

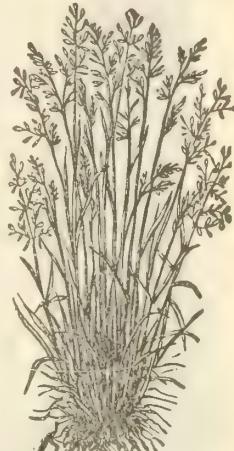
**FANCY CLEANED RED TOP**.—Hulled seed, free from all impurities. We would advise our customers to sow the Extra Cleaned Unhulled or Fancy Cleaned Seed.

**Chaff Red Top**.—Sow 4 to 6 bushels to the acre, 10 lbs. to bushel. Price, 25c. bus.

**Extra Cleaned Unhulled Red Top**.—Sow 2 to 3 bushels to the acre, 10 lbs. to the bushel. Price, lb., 10c.; bus., 90c.; 100 lbs., 8c. lb.

**Fancy Cleaned Red Top**.—Sow 12 to 15 lbs. to the acre. Price, 18c. lb.; \$12 per 100 lbs.; Bushel of 32 lbs., \$4.00.

**TALL MEADOW OAT GRASS (*Avena elatior*)**.—Most valuable for pastures on account of its early and luxuriant growth; it produces an abundant supply of foliage, which is relished by cattle, early and late. For hay it may be cut twice a year, and for green soiling it may be cut four or five times in favorable seasons. It is very hardy and withstands extreme drought and heat and cold. Height, 2 to 4 feet. 50 pounds to the acre. (10 pounds to bushel). **Lb., 28c. Bus., 100 lbs., \$22.00.**

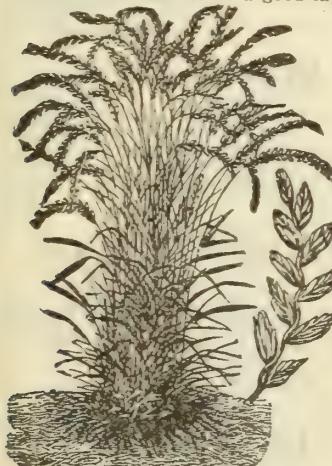


RED TOP GRASS.

## ITALIAN RYE GRASS.

**ITALIAN RYE GRASS**.—Is an annual, and should be sown every year at the rate of fifty pounds per acre. It can be sown during August, September or October. It should be mown as early as the blossoms appear, or the hay will not be so good, and it can be cut every month from early spring if the soil and weather are suitable. **Bus., 20 lbs. Lb., 12c. 10 lbs., \$1.00. Per 100 lbs., \$8.00.**

**CRESTED DOG'S TAIL (*Cynosurus cristatus*)**.—Should enter in moderate quantity in permanent pasture mixtures, and in larger quantities for lawns, as it possesses in a marked degree all the desirable features of a good lawn grass. **21 lbs. to Bus. Lb., 45c. 10 lbs., \$3.50.**



ENGLISH RYE GRASS.

**ENGLISH RYE GRASS (*Lolium perenne*)**.—This makes a quick growth very early in spring, and is adapted for cool, moist locations. 24 pounds to the bushel; 60 pounds to the acre. **Lb., 15c. Bus., \$2.00.**

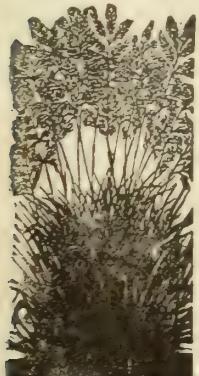
**WOOD MEADOW (*Poa nemoralis*)**.—An early nutritive grass; thrives better under trees than other grasses. Is also an excellent pasture grass. **Lb., 45c. 10 lbs., \$4.00. 14 lbs. to Bus.**

**RHODE ISLAND BENT GRASS (*Agrostis canina*)**.—A very fine variety for lawns. **Lb., 35c.**

**SWEET VERNAL (*Anthoxanthum odoratum*)**.—True perennial. Emits an agreeable odor which it imparts to the hay. **Lb., 75c.**

**KENTUCKY BLUE GRASS**.—It is rather sensitive to heat, but not so to cold weather, and on this account does its best in the fall, winter and spring. It grows slowly at first, forms a very compact turf, making a fine pasturage when once established. It is much the best, however, to combine other grasses with it, for either lawn or pasturage. Sow in the spring or fall. **Fancy, triple-cleaned, Bus. (14 lbs.) Per Lb., 25c. 100 lbs., 20c. Lb., 15c.**

**NOTICE**.—Beware of cheap Canada Blue Grass, as it is full of thistle.



KENTUCKY BLUE GRASS.

**CREEPING BENT GRASS (*Agrostis stolonifera*)**.—Excellent for lawns, succeeds well in all conditions, makes a low velvety growth. **Pound, 28c. Bushel (20 Lbs.), \$4.00.**

**MEADOW FOXTAIL (*Alopecurus pratensis*)**.—Closely resembles Timothy in growth, but has a soft feathery head. It is a valuable pasture grass, by reason of its rapid growth. About 7 pounds to the bushel; 3 bushels to the acre. **Lb., 35c. Bus., \$2.00.**

**SHEEP FESCUE (*Festuca ovina*)**.—It is a densely tufted perennial grass for dry, sandy and rocky soil where scarcely any other species will grow. It roots deeply, and forms a dense, short tuft, suitable for lawns and pleasure grounds, where the soil is sandy. It affords wholesome food for all cattle, especially sheep. Specially recommended for pasture mixtures. Sow about 30 pounds per acre. **Lb., 20c. Bus. of 12 lbs., \$2.00.**



## OUR PERMANENT

### HAY AND PASTURE GRASS.

IS prepared especially to meet the demand for a mixture that will be desirable either for cutting for hay or to use for pasture, and contains such grasses as are best adapted for these purposes. In ordering, please state whether you want a mixture for upland or low ground.

**MIXTURE FOR UPLAND**.—Fourteen pounds to the bushel, three bushels to the acre. **Per Bus., \$2.50. 10 Bus. for \$23.50.**

**MIXTURE FOR LOWLAND**.—Fourteen pounds to the bushel, three bushels to the acre. **Per Bus., \$2.50. 10 Bus. for \$23.50.**

### MEADOW FESCUE.

**MEADOW FESCUE, RANDALL, OR ENGLISH BLUE GRASS (*Festuca pratensis*)**.—This should be very much more largely used than at present. It makes a very good hay and pasture grass, and is particularly valuable for fall and winter pasturage, as it remains green throughout the winter. It is very popular in Southwest Virginia, East Tennessee and the mountainous districts of North Carolina, where it is very highly appreciated as a large-yielding, nutritious pasturage and hay grass. It succeeds well in nearly all sections of the South, and should be very largely used in pasturage and hay mixtures, being specially suitable for sowing with Red Top and Timothy for hay, or with these and Orchard and Tall Meadow Oat for permanent pasturage. Sow either in the spring or fall at the rate of 50 pounds to the acre. Thrives better under trees than other grasses. **22 lbs. to Bus. Lb., 15c. 100 lbs., \$12.00.**

# GRASSES AND CLOVERS

## CONTINUED.

### MILLET.

#### GERMAN, OR GOLDEN MILLET.

An improved variety, medium early, growing 3 to 5 feet high. The heads are closely condensed, though the spikes are very numerous. This is the best and most productive millet to grow. Price, Lb., 10c. Pk., 50c. Bus. of 50 lbs., \$1.50.

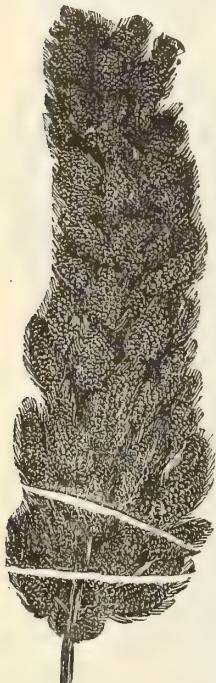
**HUNGARIAN MILLET** (*Panicum germanicum*)—Early and productive, growing 2 to 3 feet high, with an abundance of foliage and slender heads. Price, Lb., 10c. Pk., 50c. Bus. of 48 lbs., \$1.50.

**COMMON MILLET.**—Weight, per bus., 50 pounds. Price, Lb., 5c. Pk., 40c. Bushel of 45 lbs., \$1.25.

**IMPORTANT.**—It does not pay the farmer to buy cheap Grass Seeds, as it is liable to be either old seed, or full of weeds.

#### TIMOTHY (*Phleum pratense*).

This makes one of the most popular, nutritious and salable of hay grasses. It is best adapted for sowing on clay or heavy loams, low lands or in mountainous districts, although it will do well on any good stiff loamy soils, provided moisture is abundant. It does not succeed nearly as well, however, as Orchard, Tall Meadow Oat or Herd's Grass on soils of a sandy or light loamy texture, and is not of as much value for pasture as other grasses. The stand of Timothy will also be injured if grazed or cut too closely. The yield of hay on good ground is from one and a half to three tons per acre. The best clover to sow with timothy is either the Sapling or Alsike, as they mature and ripen with timothy. Pound, 10c. Peck, 75c. Bushel of 45 lbs., \$2.75.



MILLET.

### WHITE DUTCH CLOVER.

Thrives most everywhere. The best to sow with lawn grass and valuable to sow with blue grass per permanent pastures.

1/4 pound, 10c.	1/2 pound, 15c.	1 pound, 25c.
By mail, pound.....	.....	35c.
10 pounds, by express.....	.....	\$2.25

### CRIMSON CLOVER.

SEE PAGE 33.

## Grass and Clover Seed Mixtures.

#### FOR MOWING FOR HAY, BUT CAN BE GRAZED.

We have in the following mixtures combined grasses suitable for the various soils for which they are recommended.

They are composed of grasses which will give an even growth for mowing for hay. We have also combined them so as to give a splendid pasture from early spring until late fall if desired.

The different mixtures are prepared from seeds of the finest quality, and only those are used best adapted to the soils and situation for which they are intended.

#### MIXTURE No. 1.

##### For Moist Bottom Land.

Sow 25 lbs. to the acre. Price, Lb., 20c. 10 lbs. and over, 18c. per lb.

#### MIXTURE No. 2.

##### For Light, Dry, Gravelly or Sandy Soils.

Sow 35 lbs. to the acre. Price, Lb., 20c. 10 lbs. and over, 18c. per lb.

If any of the above wanted by mail, add 8c. per lb. for postage.

### ORCHARD GRASS.

#### (*Dactylis glomerata*.)

One of the best and most reliable grasses for the Middle and Southern States, either for hay or pasture. It succeeds well on nearly all soils, but does best on upland, loamy or moderately stiff soils. It starts early in the spring and continues well into winter. It is of quick growth and relished by stock, especially when young, and bears close grazing. It makes excellent hay, and gives the very best results mixed and grown with Tall Meadow Oat Grass and Red Clover, as suggested under the head of Tall Meadow Oat Grass. It should be cut when in blossom, as the hay is injured if the seed is allowed to ripen. It can be sown in the spring or fall either with grain or alone. Sow 3 bushels per acre if sown alone, or with Red Clover, one and one-half bushels of Orchard and seven pounds of Clover are the quantities usually sown. By express, 20c. lb. Bus. of 14 lbs., \$2.00.



ORCHARD GRASS.

## CLOVER SEED.

### RECLEANED RED CLOVER.

We take great pains to supply an extra quality of Red Clover at a reasonable price. Farmers should not sow a poor quality of Clover Seed. We have, however, cheaper grades for those who wish them. By express, 20c. lb. 10 lbs., \$1.80.

Ask for prices in large quantities.

### ALSIKE OR SWEDISH CLOVER.

Hardest of all the Clovers, and on rich, moist soils yields an enormous quantity of hay or pasture. Valuable for sowing with other Clovers or grasses, as it forms a thick bottom and increases the yield of hay. Sow, either fall or spring, 6 pounds per acre when used alone.

Lb., 20c. By mail, 30c. 10 lbs., \$1.80, by express.



LUCERNE.

### LUCERNE OR

### ALFALFA CLOVER.

One of the most valuable among Clovers, resisting drought and remaining green when other sorts are dried up. Sow on rich, moist loam or sandy soil. Prepare the land thoroughly and sow, either fall or spring, 20 lbs. to the acre.

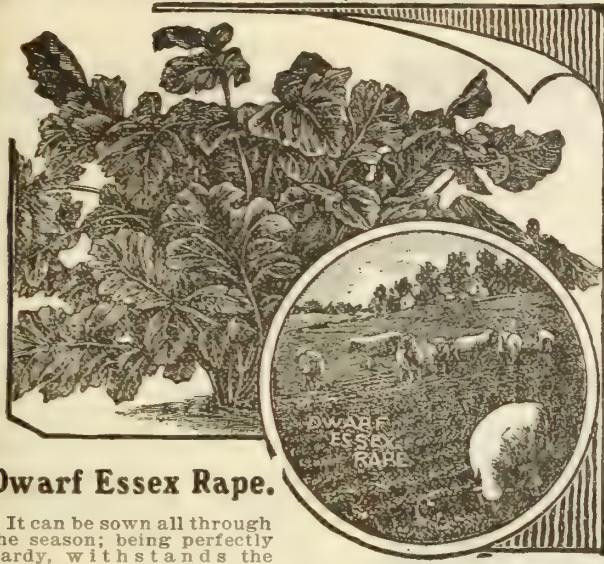
Pound .....	25c.
By mail .....	35c.
10 pounds, by express .....	\$2.00

Special prices in large quantities on application.

#### FINEST IN THE COUNTRY.

Last June you sent me four bushels of German Millet, and I now have five acres of it. Everyone says it is the finest in the country. It is in a low meadow, and the dry weather does not seem to have any effect upon it.—F. A. WELTY, Maryland.

## FORAGE AND SILO SEEDS.

**Dwarf Essex Rape.**

It can be sown all through the season; being perfectly hardy, withstands the drought, and will produce a crop in any soil by sowing broadcast at the rate of 5 lbs. to the acre, or 2 to 3 lbs. in drills. It is unequalled as a pasture for sheep, and as a fattening food for all kinds of live stock it is without a rival. Lb., 12c.; by express, 10 lbs. and over, 9c. lb., not prepaid; \$8.00 per 100 lbs. If wanted by mail, add 8c. per pound for postage.

**SOJA BEANS.**

The great drought-resisting forage crop, unsurpassed in nutritive value for feeding; also makes a splendid soil improver.

THE DR. BEANS roasted and ground resemble and taste like coffee, hence it has been advertised as German Coffee Berry. Its great value, however, is as a forage crop and for fertilizing the soil and for pasturing or feeding the green fodder.

Sow broadcast one-half bushel to the acre, or it may be planted in drills 3 feet apart and 1 foot between plants.

Price on application.

**FLAXSEED.**

Lb., 10c. 4 Lbs., 25c.  
Bus., \$2.50.

**Flaxseed Meal.**

For Horses and Cattle.  
Lb., 10c. 4 Lbs., 25c.  
In quantities at market prices.

**BROOM CORN.**—50 lbs. to Bushel.—To grow Broom Corn successfully the ground should be rich and well prepared. Plant seeds in rows 3 feet apart by 18 inches. The plants should be cultivated as soon as they are out of the ground. Harvesting should be done when the seed is in a soft, milky condition.

**IMPROVED EVERGREEN.**—This is the favorite sort; has a fine brush, yields well, and keeps green. Height, 8 to 9 feet. Lb., 25c., postpaid. Peck, 75c. Bus., \$2.50.

**VETCHES OR TARES.**—**SPRING VETCHES** (*Vicia sativa*).—Closely associated with Peas in character. Highly valuable for soiling or for green manuring. Sometimes grown with oats, for mowing and feeding to stock. Use two to three bushels to the acre. Sow in spring while ground is cool and moist, or in early autumn. Lb., 10c. Pk. of 15 lbs., \$1.25. Bus. of 60 lbs., \$4.00.

**WINTER VETCHES** (*Vicia villosa*).—Also called Sand Vetch, or Hairy Vetch. Recommended for fall sowing with rye, as in many localities in the North it is hardy, remaining green all winter. A valuable food for stock in early spring. Use 1 to 2 bushels per acre. Lb., 15c. Pk. of 15 lbs., \$2.10. Bus. of 60 lbs., \$7.25.

For years we have taken special care in the selection of the various sorts of Grass and Clover Seeds for field culture, and in consequence our trade in this line has rapidly increased. Purity of stock and high germinating quality we consider essential.

As we handle very large quantities of these seeds we are enabled to supply the best quality at lowest prices.

**CRIMSON CLOVER.****THE GREAT NITROGEN GATHERER.**

The best crop for Hay, Silage and green manuring—all winter and spring pasture. For hay, it must be cut before it comes into full bloom, as otherwise it may cause hair-balls to form in the animal's stomach. It is used on poor and rich land. It is seeded in this country in June, July, August, September and October, and will produce an enormous crop early in the following spring, suitable either for consumption as green food or for hay. 15 to 20 lbs. should be sown to the acre, according to the quality of ground. 15c. per lb.; by mail 25c. 10 lbs. by express, \$1.00. Write for prices in quantity.

**SORGHUM OR SUGAR CANE.**

**EARLY AMBER** grows 10 to 12 feet high and yields large crops of fodder, which is relished by all kinds of stock. It will produce two cuttings during the summer. Sow 3 to 4 quarts per acre in drills and cultivate same as corn. For hay, sow one bushel per acre broadcast. Lb., 10c. Pk., 50c. Bus., \$1.50, by freight or express.

**EARLY ORANGE** has a large, strong growth, but requires longer time to mature than the Early Amber. Very popular in the South, where there are long seasons.

Prices same as Early Amber.

**TEOSINTE.**—A most valuable and enormous yielding cutting forage crop, but should be planted very early to succeed well. Good to use as green food, and also makes an excellent fodder. It branches as many as 50 stalks from one seed. Plant in May or June in rows 4 to 5 feet apart each way. Oz., 10c.  $\frac{1}{4}$  lb., 25c. Lb., 75c. postpaid.

**COW PEAS.****THE GREAT SOIL ENRICHER. MAKES POOR LAND RICH. MAKES GOOD LAND BETTER.**

Prices on application.

**BLACK COW PEA.**—It is a splendid land improver and most valuable as a forage crop, making an enormous yield of rich, nutritious food. Sow in May or June at the rate of one bushel per acre for seed, or two bushels for soiling.

**BLACK EYE COW PEA.**—The Black Eye Cow Peas are very prolific and bring a good price on our market.

**WHIPPOORWILL PEA.**—Makes a splendid forage pea. Vines stay green longer than other varieties; pods ripen earlier.

**WONDERFUL, or UNKNOWN.**—This makes an enormous and remarkable growth of vines, but requires the full growing season to make its crop. In yield and growth of vines it surpasses any of the varieties of Cow Peas, and it produces very largely of the shelled Peas. This variety should be planted in May in order to come to full maturity.

**Canada Field Peas.**

Sown in February, March or April, with a small quantity of Oats, they make a large yield of forage. Sow 1 to 1½ bushels per acre broadcast with half a bushel of Oats. Cut for hay before the Peas mature. Peck, 50c. Bus., \$1.75.

Write for special prices if a quantity is required.

**KAFFIR CORN.**

The heads contain small white seeds, which make an excellent flour. They are greedily eaten by horses and cattle, and make fine feed for poultry, either fed in the grain or ground and cooked. Use 4 to 5 lbs. to acre. Lb., 10c. 10 lbs., 60c. 100 lbs., \$3.00.

**RUSSIAN SUNFLOWER.**

Growing to double the size of the common Sunflower and the yield of seed is twice as great. It is highly recommended for poultry—the best egg producing food known. Qt., 12c. 2 Qts., 20c. Pk., 60c. Bus., \$2.00.



KAFFIR CORN. 2

## THE LAWN.



PART OF CHESTNUT GROVE LAWN, BALTIMORE COUNTY.

## Griffith &amp; Turner Co's. Evergreen Lawn Grass

This is a first-class mixture prepared by ourselves, and containing nothing but choice seeds—just the thing for tennis, croquet and ball grounds, remaining green and fresh during the hot summer months. Widely known and extensively used on the finest private and public grounds around Baltimore, Washington and elsewhere with the most satisfactory results. Nothing adds to the attractiveness of suburban homes more than a well-kept, closely-cut, velvety lawn; hence the importance of securing the best seeds. This we offer in our selected Evergreen Lawn Mixture, containing different varieties that grow and flourish at different months of the year, so that a rich, green, velvety lawn is constantly maintained. It is adapted to the small grass plots of city homes. **Plint, 10c. Quart, 20c.; by mail, 25c.  $\frac{1}{2}$  Peck, 65c. Peck \$1.10. Bushel of 20 pounds, \$4.00. By freight or express not prepaid.**

## WHITE DUTCH CLOVER.

(Trifolium Repens.) See page 32.

THE best variety for lawns, as it forms a close herbage and remains green throughout the season. It is also valuable when mixed with grass seeds for pasture. Sow in spring at the rate of 6 pounds per acre when sown alone, half the quantity when sown with other grasses.

Pound, 25c. By mail, 35c. 10 pounds by Express, \$2.25.

## THE "PET" LAWN TRIMMER.

\$3.00

The cut herewith illustrates our "Pet" Trimmer, used for trimming grass from the edges of sidewalks. It will pick up the bushy edges of the sod next to the sidewalk. The smoother the edges of the sidewalk the better the tool will work. It will carve out a little strip of sod and deposit it on the walk several inches from the edge, where it may be very easily swept up. It will leave a clean little valley between the edge of the walk and the sod, giving the lawn a prettier appearance than can be done by any other process. It can be adjusted to run either deep or shallow. The cut shows a little disc which is intended to be used for trimming around the edges of flower beds. This disc is to be slipped on the main shaft between the mold board arm and the castiron gauge wheel. When trimming along the edges of sidewalks the disc cannot be used. Price \$3.00.

## GRIFFITH &amp; TURNER CO'S. GOLF LINK MIXTURE.

Bushel.....\$2.75. Ten Bushel Lots.....\$2.50.

There being a growing demand for a grass mixture suitable for golf and cricket grounds, we have made a study of the grasses best adapted to these purposes, and have them mixed in proper proportions to give desired results. Many of the public and private grounds around Baltimore and other places have been sown with our mixtures, and the grounds have won the admiration of thousands of visitors.

As it is highly essential that golf and cricket grounds should be mowed closer than ordinary lawns. 14 pounds to bushel.



## Preparation and Care of Lawns

THE ground should be thoroughly drained and well enriched before sowing. Work the soil until well pulverized, and have the surface as level as possible, so that the grass may present an even appearance. After sowing, cover seed lightly and follow with roller. The best results are obtained by using plenty of seed, four bushels to the acre being about the right quantity. One quart is sufficient for 300 square feet. Let the grass obtain a good start before cutting, and then it should be trimmed with a lawn mower about every ten days. Old lawns may be improved and renewed by the application of fertilizers and seeding about half the quantity of seed required for new lawns. This should be done whenever they show any thin places.

## Our Lawn Grass Should Not Be Confounded With the Cheap, Chaffy Grasses Offered at Low Prices.

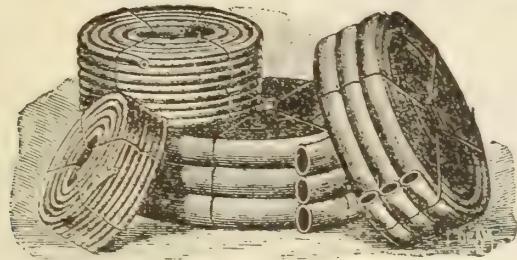
## PARK LAWN GRASS

This mixture does not contain so much of the high-priced grasses as our Evergreen Lawn Grass, but it is superior to many of the cheap grades offered, and will make a very nice lawn. **Qt., 20c. Peck, \$1.00. Bus. of 16 lbs., \$3.00. "TERRACE" SOD MIXTURE.**

A special mixture of grasses best suited for sowing on terraces, railroad embankments and side hills—grasses that produce strong, spreading roots, thus preventing heavy rains from washing them out; that will withstand drought and exposure, thrive on shallow soils, and at the same time produce a rich velvety green turf throughout the season. **Qt., 35c. Peck, \$2.00. Bus. of 20 lbs., \$7.00. If by mail, add at the rate of 5c. a quart for postage.**

# —LAWN REQUISITES—

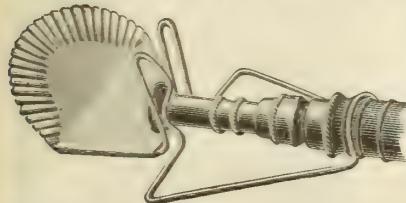
## RUBBER HOSE



	Per Foot.
<b>ORIOLE</b> .—3-ply, $\frac{3}{4}$ -in., in 25 and 50 foot lengths (100 lbs. pressure).....	<b>10c.</b>
<b>GRIFFITH &amp; TURNER CO'S EXTRA</b> .—3-ply, $\frac{3}{4}$ -in., in 25 and 50-foot lengths (125 lbs. pressure).....	<b>12c.</b>
<b>CREST</b> .—3-ply, $\frac{3}{4}$ -in., in 25 and 50-foot lengths (200 lbs. pressure).....	<b>17c.</b>
<b>GRIFFITH</b> .—5-ply, $\frac{3}{4}$ -in., in 25 and 50 foot lengths (500 lbs. pressure).....	<b>16c.</b>

RUBBER HOSE FOR SPRAY PUMPS.	Per Foot.
$\frac{1}{2}$ -inch tubing .....	8c.
1-inch Baltimore .....	20c.
$\frac{1}{2}$ -inch Spray, No. 1.....	15c.
2-in. wire-lined suction.....	40c.
$\frac{1}{2}$ -inch Spray, No. 2.....	20c.

## CRESCENT WAVE SPRINKLER.



Price..... **25c.**

It is attachable to any nozzle. Can be operated from the hand. Supports nozzle in position when placed upon the ground. Distributes water evenly and in a showerlike manner.

Permits of full flow from the nozzle, thus lessening the liability of bursting the hose. May be shifted without closing hydrant. No treading on wet grass when shifting. Not necessary to detach when reeling hose. Durable and never out of order.

## G&T KIL-WEEED

can absolutely be depended upon to do what we claim. Mixed in the proportion of 1 gallon of Kil-Weed to 50 gallons of water, will make a strong solution that will remove grass and weeds readily by applying with a sprinkling can or cart, enabling one man to accomplish as much in this manner as would be done by five or six men removing them by hand.

Quart Cans, each..... **\$0.35**  
Half Gallon Cans, each .. **.60**  
1 Gallon Cans, each... **1.00**  
5 Gallon Cans, each... **4.00**  
10-Gallon Cans, each.. **7.50**  
Bbls.(45 gals.), per gal. **.65**

For further particulars see page 76.

## G&T Kil-Worm

For Use On  
Golf and  
Cricket  
Grounds,  
Parks, Ceme-  
teries, Etc.

KIL-WORM kills Worms, Ants, Snails, etc. Causes the insects to come to the surface to die. One gallon Kil-Worm makes 50 gallons of liquid. For further particulars, see page 76.

1 Quart Bottle..... **\$0.65**  
Half Gallon Bottle.... **1.25**  
1 Gallon Jug..... **2.00**  
5 Gallon Jug..... **9.00**  
Bbls.(45 gals.), per gal. **1.75**

Full Directions With Every Container.

### HOSE REELS.

Wood	\$0.75
Sylph	2.50

### Hose Reels



### SHERMAN HOSE CLAMPS.

A screwdriver does the business.

Size, inches....	$\frac{1}{2}$	$\frac{3}{4}$	1
Price, each....	5c.	15c.	25c.
Size, inches....	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Price, each....	15c.	20c.	25c.

### BRASS HOSE COUPLINGS.

Size, inches....	$\frac{1}{2}$	$\frac{3}{4}$	1
Price, each....	15c.	15c.	25c.

Mender Tubes.	Each	5c.
	Per dozen	40c.

### GRITCO ADJUSTABLE HOSE NOZZLES.

For throwing fine or coarse spray, or straight stream. For  $\frac{3}{4}$ -inch Rubber Hose, **35c.**



GRITCO HOSE NOZZLE

### THE "FOUNTAIN SPRINKLER." MADE OF HEAVY BRASS.

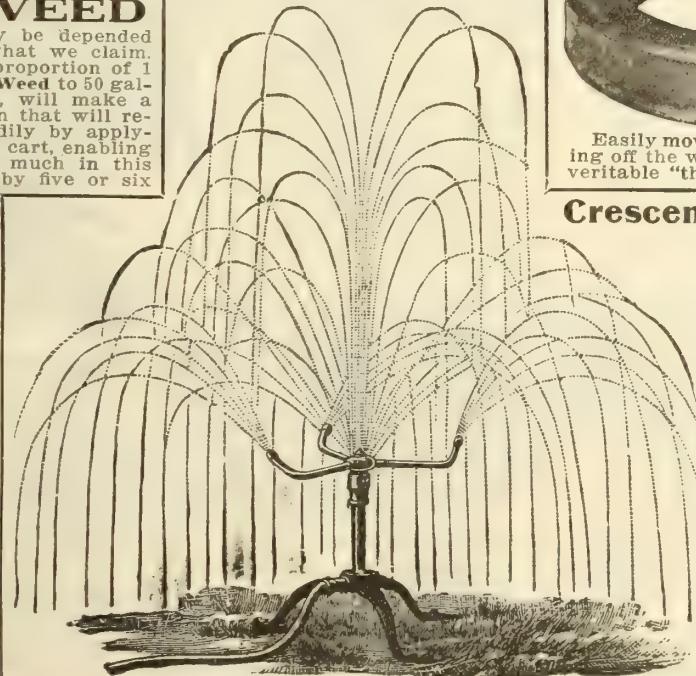


Easily moved over the lawn without turning off the water. The mist-like spray is a veritable "thing of beauty." Price, **\$1.00.**

### Crescent Lawn Sprinkler.

This Sprinkler is compactly and strongly made with phosphor-bronze bearing, and will cover a surface 48 feet in diameter. As it has a free and unobstructed channel, there is no danger of clogging with dirty water, and therefore it fills the requirements of users of such articles better than the more expensive and larger sprinklers and will accomplish the same results. The top and arms are brass, full nickel-plated standard, the base and legs are iron, handsomely japanned.

Price: 12 in. high, **\$1.50;**  
24 in. high, on sled, **\$2.25;**  
36 in. high, on sled **\$2.50.**



CRESCENT LAWN SPRINKLER.

C. B. G. SPRINKLER.  
This is the cheapest and one of the most effective sprinklers made. The distribution of water is perfect. Price, **20c.** By mail, **25c.**



COPYRIGHTED 1889

### ORDER BY NUMBERS.

Ten 5c. Papers, mailed, for 25c., or  
Four 10c. Papers for 25c.

#### 0. ABUTILON.—Plants only. See page 42.

1. AGERATUM, MIXED (A).—Suitable for beds, and especially nice for cut flowers and bouquets. Packet, 5 cents.

10. ALYSSUM (A).—The Sweet Alyssum has pretty little white flowers, useful in making small bouquets, and its fragrance, while sufficiently pronounced, is very delicate. The Alyssum grows freely from seed, blooms the whole season.

Oz., 25c. Packet, 5c.

11. ALYSSUM (A) (Tom Thumb).—Of dwarf, compact habit, each plant covering a circle from 15 to 30 inches. It will bloom when small and remain covered with bloom from spring to autumn.

Oz., 40c. Packet, 5c.

20. AMARANTHUS, MIXED (A).—Showy blooming plants, with long racemes of curious looking flowers and brilliant foliage; half hardy annuals.

Packet, 5 cents.

21. AMARANTHUS, TRI-COLOR (Joseph's Coat) (A).—Red, Yellow and Green foliage; 2 feet. Packet, 5 cents.

22. AMARANTHUS CAUDATUS (Love Lies Bleeding) (A).—Graceful and handsome flowers of blood-red hue.

Packet, 5 cents.

24. ANTIRRHINUM, DOUBLE MIXED (P).—One of the most useful and showy border plants. The recently improved varieties have large, finely shaped flowers of brilliant colors. Perennial.

Packet, 5 cents.

### ASTERS.

25. ASTERS (China) (A).—Choice mixed varieties. Well-known and beautiful flowers; should be in every garden. Packet, 5 cents.

26. ASTER, GERMAN (A).—All colors and shades of the best German sorts. Sow seed early and transplant to rich soil.

Packet, 5 cents.

27. ASTER, TRUFFAUT'S PERFECTION (A).—A very favorite class; thrifty, upright growers; flowers large, almost perfectly round, with incurved petals. The florist's preference; 1½ to 2 feet.

Packet, 10 cents.

28. PRINCESS SNOWBALL (A).—This is an entirely distinct variety of Aster. The flowers are pure white, and are formed of short, thickly set imbricated petals, there being about 25 to 30 on a plant.

Packet, 10 cents.

29. MIGNON ASTER (A).—A splendid new class of Asters. The plants are semi-dwarf and bear in profusion flowers of a very double nature, the petals overlapping each other.

Packet, 10 cents.

30. VICTORIA ASTER (A).—The most beautiful of all Asters, bearing flowers of all colors and shades; the colors include many extremely delicate and gorgeous shades. Very double and four inches across; height 15 to 18 inches. Packet, 10c.

31. COMET ASTER (A).—This class of Asters has long slender and curled petals, forming loose yet dense flowers of semi-globe shape, 3½ to 4½ inches in diameter, which resemble the Japanese Chrysanthemum.

Packet, 10c.

32. DWARF CHRYSANTHEMUM FLOWERING ASTER (A).—Grow 9 inches high; surpass all the dwarf varieties in size of flowers.

Packet, 10c.

33. SEMPLE'S BRANCHING ASTER (A).—A choice strain of American-grown Asters, which has, by careful selection, been brought to a high degree of excellence.

Mixed Colors, 10c.

34. SEMPLE'S BRANCHING ASTER (A) (White).—Very choice.

Packet, 10c.

35. BACHELOR'S BUTTON, or BLUE BOTTLE (A) (Centauraea Cyanus).—A very old favorite garden annual, with handsome flowers of various colors. It does best if sown in a hot-bed; half-hardy annuals; two feet.

Packet, 5 cents.

40. DOUBLE BALSAMS, CAMELLIA FLOWERTREE (A) (Lady Slipper, or For Me Not).—The well-known Balsams are one of the finest summer blooming annuals, free bloomers and highly colored. By transplanting them once or twice, the flowers are apt to be more double.

Packet, 5 cents.

41. BALSAM, PERFECTION WHITE (A).—This resembles the mixed Balsams in shape, but the flowers are of a pure white, and is the variety usually grown by florists.

Packet, 10 cents.

45. CANDYTUFT MIXED (A).—Well-known favorite, hardy annuals; very pretty in beds or masses, useful for bouquets. Seeds may be sown in the fall for early flowering.

Packet, 5 cents.

46. CANDYTUFT, WHITE (A).—Treated and used same as the mixed.

Packet, 5 cents.

The letter "A" means annual.  
The letter "P" means perennial.

50. CALCEOLARIA DWARF (A).—This is a magnificent ornamental plant for greenhouse or conservatory, bearing in profusion pocket-shaped flowers of all colors, spotted and blotched in the most fanciful fashion.

Packet, 25 cents.

53. CALENDULA, DOUBLE (A).—Very profuse dwarf bushy annuals, blooming continuously and profusely until frost; of easy culture, and suitable for summer garden or for growing in pots in winter.

Packet, 5 cents.

55. CANNA, MIXED (Extra Choice) (A).—The Cannas are desirable not only for the beauty of their spikes of scarlet flowers, but for their highly ornamental leaves. They make superb beds for the lawn. Soak the seeds thoroughly before planting, and keep in a warm spot. Very slow to germinate.

Packet, 5 cents.



33.—SEMPLE'S BRANCHING.

60. CANTERBURY BELLS, SINGLE MIXED (Campanula) (A).—A highly attractive class of plants, combining richness of color with stately growth; valuable for beds and borders. Sow early, and transplant in light, rich soil.

Packet, 5 cents.

61. CANTERBURY BELLS, DOUBLE MIXED (P).  
Packet, 5 cents.

CARNATION.—(See Pinks) (P).

CASTOR OIL BEAN.—(See Ricinus) (A).

68a. CENTAUREA GYMNOCARPA.—Fine cut silver-gray foliage; 1½ feet.  
Packet, 5c. 1-4 oz., 25c.

68. CENTAUREA CANDIDISSIMA.—Silver white; leaves broadly cut.  
Packet, 5c. 1 oz., 25c.

# Flower Seeds That Grow.

Ten 5c. Papers Mailed for 25c., or  
Four 10c. Papers for 25c.

**69. CENTROSEMA GRANDIFLORA (P).**—A perfectly hardy perennial vine of rare beauty, which blooms in July from seed sown in April, and bears in great profusion inverted pea-shaped flowers of various colors. Packet, 5c.

**70. CHRYSANTHEMUMS, SINGLE, MIXED (A).**—Showy and effective garden favorites extensively grown for cut flowers. The hardy annuals are summer flowering border plants; good for pot culture and quite distinct from the autumn flowering varieties. Packet, 5c.

**71. CHRYSANTHEMUMS FRUTESCENS (A).**—The Marguerite, or Paris Daisy.—Immense quantities are grown by French florists, and find a ready sale. It produces freely its white, star-like flowers under the most favorable conditions. Packet, 10c.

**75. CINERARIA (Dusty Miller) (P).**—Fine for bedding, ribbon beds and margins; prized for their beautiful, downy, silvery foliage; half hardy perennials; two feet. Packet, 5c.

**76. CINERARIA HYBRIDA (P).**—Large flowered prize varieties; very attractive, free blooming plants, producing large and brilliant flowers. Packet, 25c. 5 for \$1.00.

**77. CINERARIA HYBRIDA DWARF (P).**—Large flowered, dwarf prize varieties; splendid strain. Packet, 25c. 5 for \$1.00.

**80. CLARKIA, MIXED (A).**—An old favorite hardy annual plant, growing in any garden soil, and producing freely its cheerful flowers early in the season; 1½ feet. Packet, 5c.

**85. COCKSCOMBS (Celosia Cristata) (A).**—Very popular annuals of the easiest culture, highly ornamental for decoration of the greenhouse, drawing-room and garden. Half hardy annuals. Packet, 5c.

**86. COCKSCOMBS, GLASGOW PRIZE (A).**—Immense showy dark crimson combs. 10c.

**88. COWSLIP (P).**—Packet, 10c.

**89. COLEUS (A).**—Very choice plants with richly colored foliage of maroon, green, crimson, yellow, etc. Pkt., 25c.

**90. CONCOLVULUS, TRI-COLOR MINOR (Dwarf Morning Glory) (A).**—A beautiful class of hardy annuals, affording a large, showy mass of flowers from July to October. Packet, 5c.

**93. COREOPSIS (Calliopsis) (P).**—Very handsome and showy plants, with numerous flowers of brilliant colors, and of long duration in bloom.

**93a. COREOPSIS LANCEOLATA (P) — IMPROVED (California Sunbeams).**—This is one of the finest of hardy plants, with large, showy, bright golden-yellow flowers, freely produced on long stalks, from June till frost; excellent for cutting; will thrive in almost any situation. Packet, 5c. 1-4 oz., 40c.

## COSMOS.

Large flowering. Sow early in spring, and transplant when danger from frost is past. The flowers are borne profusely, and present a charming appearance when in full bloom, being covered through the autumn months with hundreds of showy blossoms. They are very easily raised and make a grand display.

**94. TINTS OF DAWN COSMOS (A).**—This new variety comes into full bloom in July, and continues a mass of bloom until cut down by severe frost. In addition to this, it is of dwarf growth, and large flowers. Pkt. 10c. 1-4 oz. 50c.

**95. COSMOS Mixed (A).**  
5c. 1-4 oz. 20c. Oz. 50c.

**95a. COSMOS, Pink (A).**—5c.

**95d. NEW MARGUERITE COSMOS (A).**—One of the prettiest and daintiest varieties imaginable. Packet, 10c.



76.—CINERARIA HYBRIDA.

**96. CYCLAMEN—PERSICUM—GIGANTEUM, MIXED (P).**—Charming plants with beautiful foliage and rich colored, fragrant flowers. Packet, 25c. 5 for \$1.00.

**97. DAISY, MIXED (P).**—Well-known favorites, admirably adapted for edgings, borders and low beds, and it is also suited for growing in pots. Although they are perennials, they will flower the same season if seed is sown early in the house. Packet, 10 cents.

**98. DAISY LONGFELLOW (P).**—This is a very pretty, large, double pink variety. Packet, 10 cents.

**99. DAISY, SNOWBALL (P).**—An unusually large-flowered variety, and produces very double, pure white flowers. Packet, 10 cents.

## DAHLIA.

One of our best autumnal flowering plants. Blooms until killed by frost; tuberous-rooted, half-hardy perennials; blooming the first year from seed, if sown early.

**100. SINGLE MIXED (A).**—Large, showy single flowers. Packet, 5c.

**100a. CACTUS DAHLIA (A).**—A most curious and desirable variety of many colors. Packet, 5c.

**DIANTHUS.**—(See Pinks).  
**DAHLIA ROOTS AND PLANTS IN GREAT VARIETY.**

See page 45 in Plant Department for full description of the many kinds and prices.

Can supply large or small orders at short notice.

**101. ETERNAL FLOWER (Helichrysum) (A).**—These are very popular and desirable for winter decoration, bouquets, wreaths, etc. They should be cut when they come into full bloom, tied into bunches and dried in the shade with their heads downward. Packet, 5c.

**103. FEVERFEW (GOLDEN FEATHER) (Pyrethrum Auratum) (P).**—A highly ornamental golden-yellow foliage plant, unexcelled for bedding. Hardy perennial; 1½ feet. Packet, 5c.

**105. FORGET-ME-NOT (Myosotis (P).**—Neat and beautiful little plants, with star-like flowers, succeeding best in a shady, moist situation; half-hardy perennials; blooming the first year from seed, if sown early. Pkt., 5c.

**106. FOXGLOVE (DIGITALIS) (P).**—A handsome and highly ornamental, hardy perennial plant of stately growth; fine for shrubberies and other half-hardy places; 3 feet.

**107. GERANIUM (New Zonale) (A).**—A grand strain of Geraniums, containing all shades of colors. Packet, 10c.

**108. GODETIA—Finest Mixed (A).**—Fine, profuse blooming, hardy annuals. Packet, 5c.



DAISY.

**109. GAILLARDIA (A).**—Very attractive plants, producing a profusion of bloom the entire summer and autumn. Half-hardy annuals.

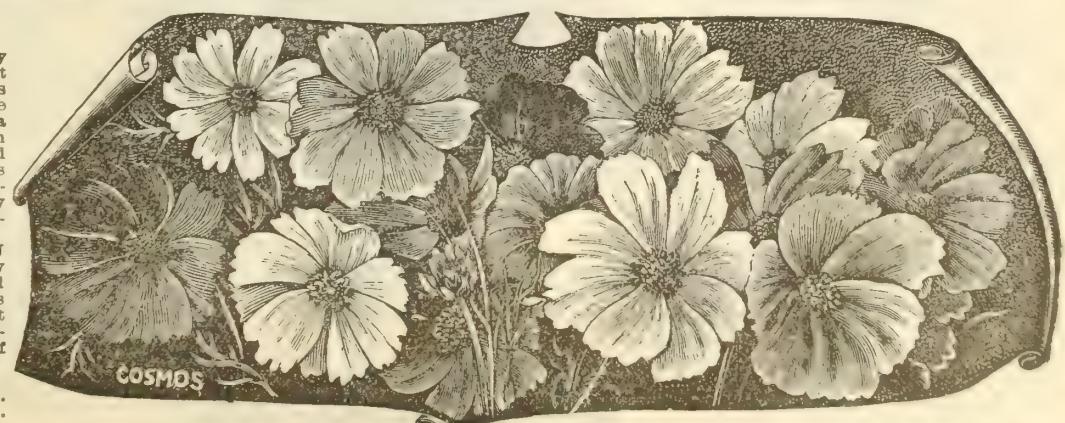
Packet, 5 cents.

**110. GILIA, MIXED (A).**—Very pretty dwarf plants, early, free blooming, fine for massing and rock work. Hardy annuals.

Packet, 5 cents.

**111. GLOXINIA (A).**—Large flowering, choice mixed. Produces in great profusion large bell-shaped flowers of the richest variety of colors.

Packet, 25 cents.



95b. COSMOS, White (A).—5c.

95c. COSMOS, Crimson (A).—5c.

95d. NEW MARGUERITE COSMOS (A).—One of the prettiest and daintiest varieties imaginable. Packet, 10c.

## SELECTED FLOWER SEEDS.

Ten 5c. Papers Mailed for 25c.  
or Four 10c. Papers for 25c.

**112. HELIOTROPE (A).**—These are deliciously fragrant flowers, remaining in bloom a long time; fine for pot culture or bedding; half-hardy annuals. **Packet, 5c.**

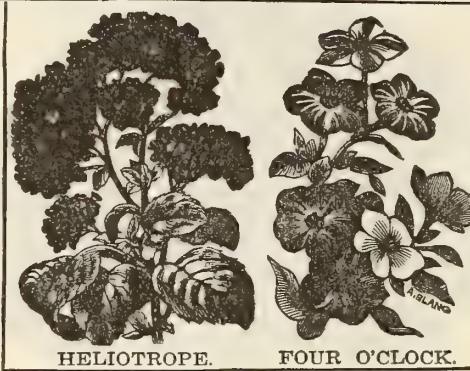
**115. HOLLYHOCK, CHATERS SUPERB MIXED (P).**—This is one of the oldest inhabitants of our gardens; now ranks as one of the finest autumn flowers. **Packet, 5c.**

**116. HOLLYHOCK, CHATERS DOUBLE WHITE (P).**—Largely used by florists. **Packet, 10c.**

**119. LANTANNA (A).**—Of compact growth, and very profuse bloomers. **Packet, 5c.**

**120. LARKSPUR (Delphinium) (A).**—One of the most showy and useful plants, possessing almost every requisite for adornment of the garden. **Packet, 5c.**

**121. LARKSPUR EMPEROR (P).**—Of symmetrical bushy habit, with a profusion of brilliant dark-blue, red-striped and tri-colored flowers. **Packet, 5 cents.**



## LOBELIA.

A beautiful and popular flower, very desirable for pot culture, beds or hanging baskets, because of its trailing habits. Grows easily and does well in beds and rockeries. Bears a profusion of blue and white flowers. Annuals.

**122. MIXED VARIETIES.—5c. (A).**

**123. CRYSTAL PALACE COMPACTA (A).**—Rich deep blue. The finest for bedding.

**Packet, 10 cents.**

**125. MARIGOLD, DOUBLE AFRICAN (A).**—A well-known free-flowering plant, of easy culture, with rich and beautiful double various-colored flowers.

**Packet, 5 cents.**

**126. MARIGOLD, DOUBLE FRENCH (A).**—Of compact habit, with numerous bright, showy flowers. Very fine. **Packet, 5c.**

**130. MARVEL OF PERU, or FOUR O'CLOCK (Mirabilis Jalapa) (A).**—Very pretty annual of vigorous growth. The flowers are brilliant, singularly mixed and varied on the same plant. 2 feet.

**Packet, 5 cents.**

**131. MATTHIOLA BICORNIS (A).**—Very fragrant at night.

**Packet, 5 cents.**

**133. MESEMBRYANTHEMUM CHRYSANTHEMUM (Ice Plant) (A).**—Dwarf spreading plants of great beauty, blooming the entire summer, succeeding best in dry, sandy or loamy soil, and in a warm locality. It belongs to the half-hardy annuals. **Packet, 5c.**

**134. MIMULUS.**—The beautiful Monkey Flower. **Packet, 5c.**

## MIGNONETTE. (A)

## (SELECTED STOCK.)

**135. MIGNONETTE—SWEET (Reseda Odorata).**—A well-known and universal garden favorite, and one that requires no extra instructions for growing. Hardy annuals. **Pkt., 5c. Oz., 15c.**

**136. MIGNONETTE — PYRAMIDAL.**—(Large flowered).—The largest flowered of all Mignonettes. Annual. **Pkt., 5c. Oz., 15c.**

**137. MACHET MIGNONETTE.**—Well adapted for pot culture; dwarf pyramidal growth; bearing numerous flower stalks; one of the best. **Pkt., 10c. 1-4 Oz., 20c. Oz., 50c.**

**138. MIGNONETTE VICTORIA (A).**—A splendid new, compact-growing variety of dense pyramidal, growing about six inches high. The flowers are of a brilliant red, and are suitable for pot or garden.

**Pkt., 10c.**

**139. ALLEN'S DEFIANCE (A).**—When grown under favorable conditions and with proper care spikes will not only be of remarkable size—from 12 to 15 inches long—but deliciously fragrant; much more so than any other variety.

**Pkt., 10c. 1-4 Oz., 25c. Oz., 75c.**

**140. GOLDEN MACHET MIGNONETTE (A).**—Distinct new variety of the well-known Machet, of the same compact and robust habit, but differing from the type by its massive spikes of golden-yellow blossoms.

**Pkt., 5c. 1-4 Oz., 20c. Oz., 50c.**



DEFIANCE MIGNONETTE.



**158. PANSY. (Bugnot's Exhibition.)**—A celebrated strain of extra large size, beautiful colors, handsome broad blotches, and finely penciled with stripes of delicate hue. The ground colors are generally dark, which, with light penciling and blotches, make a magnificent flower. They are a small seeder. **Packet, 25 cents.**

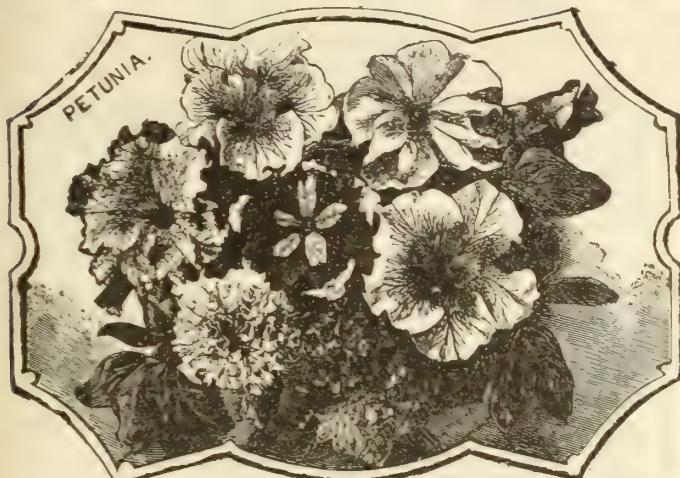
**155. PANSY HEARTSEASE.** Choice mixed. An old but universally admired plant, producing an endless variety of color, marking and texture. They may be treated as annuals, as they flower the first season from seed; 6 inches. **Pkt., 5c. 1-8 Oz., 35c.**

**157. G. & T. CO.'S EXTRA MIXED.** This mixture, containing the finest blotted varieties, is grown and selected with special care, and has given the most satisfactory results to both florists and amateurs for the past two years.

**Pkt., 15c. Two Pkts., 25c. 1-8 Oz., 60c.**

**162. PASSION FLOWER (Southern Beauty).**—A most interesting and well-known order of climbers, bearing singularly beautiful flowers. **Packet, 10 cents.** (A) Annual. (P) Perennial.

## THE BEST FLOWER SEEDS.



## PETUNIAS. ANNUALS.

**165. PETUNIA.**—Favorite, half-hardy, succeeding well in any rich soil. For the brilliancy and variety of the colors and the long duration of their blooming period, they are indispensable in any garden. **Packet, 5c.**

**166. SINGLE-FRINGED MIXED PETUNIA.**—Large flowers, four to five inches across, of every hue, each flower being beautifully fringed. **Packet, 25c.**

**167. DOUBLE PETUNIA.**—About 30 per cent. will produce double flowers. **Packet, 25 cents.**

**168. PETUNIA — Double-Fringed Mixed.**—The flowers of this sort being double, together with being fringed, are very beautiful. **Packet, 25c.**  
Plants of Double Petunia furnished on application. **10c. each. \$1.00 doz.**

## PHLOX DRUMMONDII.

**175. PHILOX DRUMMONDII (A).**—A most brilliant and beautiful hardy annual, about one foot high, well adapted for bedding, making a dazzling show through the whole season. It succeeds well on almost any soil.

**Packet, 5 cents.**

**167. PHILOX DRUMMONDII—(Nina Compacta) (A).**—Very fine mixed. This new strain is of dwarf, compact habit, and makes desirable pot plants; also excellent for ribbon lines and massing.

**Packet, 10 cents.**

## PINKS. (P)

**180. PINK-CARNATION, or PICOTEE.**—Choicest Double Mixed *Dianthus Caryophylus*.—Carnation and Picotee Pinks are generally favorites for their delicious fragrance, richness of colors and profuse bloom. Perennial.

**Packet, 10 cents.**

**181. PINK, CARNATION (Riviera Market, or Gilland).**—This is the only variety that will produce flowers the first season. The mixture we offer contains a magnificent variety of colors and shades, having among them flowers of canary yellow, and also striped yellow. They will thrive either in open ground or pots.

**Packet, 25 cents.**

Ten
5c. Papers
mailed for
25c. or
Four 10c.
Papers
for 25c.

**182. PINK CARNATION (Marguerite) (P).**—Will produce flowers in a few weeks from seed. Profuse bloomers, producing very double flowers of all shades of red, pink, white and variegated. Will bloom all summer until frost or indoors in winter in pots.

**Packet, 10 cents.**

**185. PINK-CHINA (Dianthus Chinensis) (P).**—Free bloomers, and a general favorite for bouquets; also a useful bedding plant.

**Packet, 5 cents.**

**188. PINK — HEDDEWIGII (P).**—Beautiful double flowers in a great variety of colors, with fringed white edges.

**Packet, 5 cents.**

**189. PINK — JAPAN (P).**—Beautiful double flowers, mixed, of various colors, with the outer edges fringed and nearly white.

**Packet, 10 cents.**

**195. PORTULACA (Mexican Rose) (A).**—One of the finest hardy annual plants, of easy culture, thriving best in rather rich, light loam or sandy soil; the single-flowering varieties are large and brilliant, of the richest shades of color, and produced throughout the summer in great profusion; fine for massing in beds or edgings of rock work.

**Packet, 5 cents.**

**196. DOUBLE PORTULACA (A).**

**Packet, 10 cents.**



CARNATION.

FOR PLANTS, SEE PLANT PAGES.

**200. POPPY-CARNATION (Papaver) (A).**—A showy and easily cultivated hardy annual, with large brilliant colored flowers, growing freely in any garden soil. **Pkt., 5c.**

**201. POPPY — PEONY FLOWERED (A).**—A magnificent species, large, showy, double globule flowers, resembling Peonies in shape. **Packet, 5 cents.**

**202. SHIRLEY POPPY (A).**—These beautiful Poppies are generally single or semi-double. The colors, extending from one extreme to the other, are so varied that scarcely two are alike, while many are striped and blotched. The blooms, if cut when young, will stand for two or three days.

**Packet, 5 cents.**



TULIP POPPY.

**203. TULIP POPPY (A).**—A magnificent species from Armenia. The plants attain a height of 14 to 16 inches, and produce from about 50 to 60 flowers of the brightest scarlet. **Packet, 5 cents.**

**204. ICELAND POPPIES, MIXED (A).**—Although hardy perennials, these Poppies bloom the first season from spring-sown seed. The fragrant, elegant, crushed satin-like flowers are produced in never-ceasing succession from the beginning of June to October. **Packet, 5 cents.**

**205. POPPY—IRRESISTIBLE (A).**—A rare and beautiful Poppy, with immense flowers. Color, an exquisite rose. **Pkt., 5c.**

**210. ENGLISH PRIMROSE (Primula Vulgaris) (P).**—No collection of spring flowers is complete without a few of these charming little plants. A little covering in the late fall will protect them from the severe weather of winter, and the great number of flowers produced will more than repay you the extra trouble. They are not as generally grown as they should be.

**Packet, 10 cents.**

**211. CHINESE PRIMROSE (Primula Fringed) (A).**—This variety is much prettier than the English, being fringed and of the most beautiful colors. They differ from each other like the double and single Petunias. **Packet, 25c.**

**212. RICINUS, CAMBOGIENSIS (A).**—Ornamental plants of stately growth and picturesque foliage; fine for lawns, massing or center plants for ribbon beds; half-hardy annuals. **Packet, 5c.**

**212½. RICINUS ZANZIBARIENSIS, MIXED (A).**—Their immense leaves and gigantic plants exceed all other varieties. **Packet, 5 cents.**

**213. SCABIOSA — GRANDIFLORA (P).**—A wonderful improvement over the old variety; bears beautifully formed flowers three inches in diameter. **Pkt., 10c.**

**215. SCARLET SAGE (Salvia Splendens) (A).**—Tall, erect, green foliage. A favorite greenhouse and bedding plant, bearing long spikes of flowers in great profusion from July to October; half-hardy perennial, blooming the first year from seed. 3 feet. **Pkt., 5c. ¾ oz., 75c.**

**216. SCARLET SAGE—CLARA BEDMAN (Bonfire) (A).**—Dwarf, green foliage, flowers close to the ground. The finest Salvia ever introduced.

**Packet, 5c. ¾ oz., 75c.**

(A) Annual. (P) Perennial.

# FLOWER SEEDS THAT GROW.

Ten 5c. Papers Mailed for 25c.  
or Four 10c. Papers for 25c.



SWEET WILLIAM.

**231. STOCKS — SNOWFLAKE IMPROVED.** — A beautiful dwarf-growing variety; very large, double, snow-white flowers. Our seed of this variety is grown by a specialist, and will produce a large percentage of double flowers. Packet, 10c.

**235. SUNFLOWER (Helianthus) (A).** — Remarkable for the stately growth, size and brilliancy of their flowers, making a very good effect among shrubbery and for screens. The seed is also good for feeding poultry. Packet, 5c.

**237. SWEET ROCKET (Hesperis) (A).** — Very pleasing, early spring flowering, profuse blooming plants, with fragrant flowers, growing freely in any light, rich soil. Packet, 5c.

**240. SWEET WILLIAM (Dianthus Barbatus) (P).** — A well-known free-flowering popular favorite; the great improvements upon the old varieties made within the last few years have rendered it still more desirable. Hardy perennials. Packet, 5c.

**243. SWEET VIOLET (A).** — Deservedly much in demand, because of their profusion of bloom and delicate, sweet odor. Packet, 10c.

**244. TORENIA (A).** — Charming plants for pot-culture, vases or hanging baskets. They succeed well also in the open ground in summer, and are very attractive in beds or masses. Packet, 5c.

**245. MAMMOTH VERBENA (A).** — One of the most popular and useful bedding plants. Verbenas delight in sunny situations, rich soil and thorough cultivation. Packet, 5c. Ounce, \$1.

**250. VINCA ROSA (A).** — Rose with dark eye. Packet, 5c.

**251. VINCA ALBA (A).** — White, with crimson eye. Pkt. 5c.

**255. WALLFLOWER, DOUBLE (A).** — Well-known, deliciously fragrant plants, with large spikes of double flowers, similar to the Gilliflower. Succeed in light, rich soil, in a moist atmosphere. Perennials. Packet, 10c.

**258. ZINNIA ELEGANS (Youth and Old Age) (A).** — This is one of the most brilliant of annuals, and has long been a general favorite. The flowers are large, finely formed, in great variety of colors, and continue to bloom the entire season. Half-hardy annuals. Packet, 5c.

**259. ZINNIAS CURLED AND CRESTED (A).** — New, odd and superb. Petals twisted, curled and crested into fantastic contortions and graceful forms. A magnificent variety of colors. Packet, 5c.

**260. ZINNIA—DOUBLE POMPON (A).** — Long, cone-shaped flowers, very fine. Packet, 5c.

**261. ZINNIA—ZEBRA FLOWERED (A).** — Packet, 5c.

## GENERAL LIST OF CLIMBERS.

**AMPELOPSIS VEITCHII** can be furnished as a plant only.  
(See Nursery pages.)

**270. BALSAM APPLE (Momordica) (A).** — Very curious trailing vines, with ornamental foliage; fruit golden yellow; when ripe, opens, showing the seeds and its brilliant carmine interior. Packet, 5c. Ounce, \$1.00.

**272. BALLOON VINE (Love in a Puff) (A).** — A rapid growing plant; succeeds best in light soil and warm situation; flowers white; half-hardy annual. Packet, 5c.

**220. SENSITIVE PLANT (Mimosa).** Curious and interesting plants, with pinkish-white flowers; the leaves close in and droop when touched or shaken; tender annual. Packet, 5c.  
**SNAP DRAGON.** (See Antirrhinum.)  
Packet, 5c.

**230. TEN WEEKS STOCKS.** (Gilliflower).

A world-wide favorite, brilliant and varied in color; equally well-adapted for massing, bedding, edging or pot culture. Very profuse bloomers. Should be grown in rich soil.  
Packet, 5c.

**275. CANARY BIRD FLOWER (Peregrinum) (A).** — With yellow, canary-like flowers; very ornamental and beautiful foliage; half-hardy annual. Packet, 5c.

**276. COBEA SCANDENS (P).** — A beautiful, rapid-growing climber, with handsome foliage and large bell-shaped flowers; blue; half-hardy perennial; grows 20 to 30 feet high. Packet, 10c. Ounce, 40c.

**278. CYPRESS VINE, RED (Ipomea Quamoclit) (A).** — One of our most popular vines, with very delicate fern-like foliage, and masses of beautiful, small, star-shaped flowers. Sow last of May; 15 feet. Packet, 5c.

**279. CYPRESS VINE, WHITE (A).** — Usually grown with the red, making a handsome effect. Packet, 5c.

**282. MAURANDIA (Barclayana) (A).** — These charming climbers cannot be too highly praised for their beautiful flowers and foliage. They are admirably adapted for hanging baskets, vases or trellis work. Packet, 5c.

**285. MIXED GOURD (Cucurbita) (A).** — Rapid growing interesting plants, with ornamental foliage and varieties of singular-shaped fruit; annual. Packet, 5c.

**286. NEST EGG GOURD (A).** — White fruit, shaped like an egg. Used as a substitute for nest eggs. Packet, 5c.

**287. DISH CLOTH GOURD (A).** — Packet, 5c.

**288. DIPPER GOURD (A).** — Packet, 5c.

**290. MOCK ORANGE (P).** — Fruit shaped like an orange. Packet, 5c.

**295. HEAVENLY BLUE IPOMEA (A).** — The flowers are in large, airy clusters, and of that lovely blue so rarely seen. Flowers four to five inches across. Packet, 5c.

**300. MORNING GLORY (Convolvulus Major).** — One of the most free flowering and rapidly-growing plants in cultivation, thriving in almost any situation. The beauty and delicacy of their brilliant flowers are unsurpassed; hardy annuals. Packet, 5c.

**301. NEW BRAZILIAN MORNING GLORY.** — Packet, 5c.

**302. GIANT JAPANESE MORNING GLORY (See Cut).** — This plant has been developed to such a state of perfection that it now produces flowers of immense size and almost endless variety of color and markings. Some of the flowers are brilliant red, or rich blue self-colored; others are equally brilliant, with broad margins of clear white. Some blossoms are striped and dotted with blue or red on white or lemon-yellow ground; others clouded with blue and red; in fact, one may expect to find some new and exquisitely beautiful markings every morning. Not only are the flowers varied, but the foliage is equally so; some of it comes plain green, and part is mottled with white and shades of yellow or yellowish green. Vines grow 30 to 40 feet high. Packet, 10c.

**305. MOON FLOWER (Ipomoea Noctiflora).** — Charming and popular blooming climbers; of rapid growth and showy effects; warm, rich soil, with a sunny exposure suits them.

Packet..... 5c.

**310. TALL NASTURTIUM (Tropaeolum Major).** — Elegant, profuse flowering plants, constantly growing in favor for verandas, trellis, etc. The seed pods can be gathered while green and tender for picking.

Packet..... 5c.  
Ounce..... 10c

**320.—SCARLET RUNNERS.** — Very handsome climbing Beans, with bright scarlet flowers.  
Packet..... 5c.

**326.—SIMLAX.** — Charming climber for greenhouse or window gardens.

Packet..... 5c.  
½ Ounce..... 25c.  
Ounce..... 40c.



JAPANESE MORNING GLORY.

# SWEET PEAS.

## CULTURE.

**S**WEET PEAS should be sown in drills as early as possible in spring, in rich, friable soil. Prepare the bed thoroughly, working in a quantity of well-rotted manure, if it can be done, making a furrow 4 to 6 inches deep. In this sow the seed and cover 2 inches deep. As soon as the plants begin to show through, fill in the furrow. This will secure a deep planting without the bad effect of deep covering of the seed at first, and so enable the plant to bloom continuously through the heat of summer. As fast as the flowers come into full bloom or fade they should be cut off, for if the pods are allowed to form the plants will stop blooming.

## Classified Varieties as to Color.

If you want white, select from numbers 356, 373, 387, 402. Pinks, 350, 371, 391, 420, 427. Orange and salmon, 395, 406. Scarlet, 377, 386. Maroon, 360, 423. Yellow, 400. Striped varieties, 353, 411, 424. Pink or red, with white wings, 357, 358.

**350. ALICE ECKFORD.**—Standard, rich, creamy, tinted pale pink. Wings pure white. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**362. AMERICA.**—Large, bold flower; white striped with blood-red. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**351. APPLE BLOSSOM.**—Bright rose and pink; beautiful. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**352. AURORA.**—The color effect is gorgeous; both standard and wings are flaked and striped on a white ground with bright orange salmon. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**363. BLACK KNIGHT.**—Extra large, well-expanded flowers of glossy maroon. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**356. BLANCHE BURPEE.**—Pure white; very large flower. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**357. BLANCHE FERRY.**—Popular color, standard brightest pink; keel and wings white. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**358. BLANCHE FERRY.**—Extra early. Oz., 5c.  $\frac{1}{4}$  lb., 15c.

**359. BLUSHING BEAUTY.**—Flowers of largest expanded form, perfect in shape, and of very good substance. Color a delicate, soft pink. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**360. BOREATTON.**—A very fine dark Pea, with bold, stout flowers; color deep maroon. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**361. BUTTERFLY.**—New, and ranks among the very best of this unrivaled class of plants. Color lavender blue, shading into white on the lower petals. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**364. CAPTAIN OF THE BLUES.**—Large shell-formed flowers, purplish blue; wings deep blue. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**365. COQUETTE.**—Rosy cream standard; cream wings. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**366. COUNTESS OF RADNOR.**—Delicate lavender, wings delicately striped with rose. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**371. ELIZA ECKFORD.**—Standard rose, wings delicately striped with rose. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**372. EMILY ECKFORD.**—Standard heliotrope, suffused with blue; wings deep blue. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**373. EMILY HENDERSON.**—Very early; color pure white; fragrance most delicious. The plants are robust, branched, of compact habit; flowers large, broad and round, and its abundance of bloom is phenomenal. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**374. FIREFLY.**—Intense, glowing crimson. Oz., 5c.  $\frac{1}{4}$  lb., 15c.

**381. GAIETY.**—Standards white, striped and flaked with rosy lilac; wings delicate blush. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**367. GORGEOUS.**—Flowers very large; coloring rich, glowing and effective. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**380. GRAY FRIAR.**—Large, shell-shaped flower, white clouded, and minutely dotted with reddish lilac. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**382. HER MAJESTY.**—Beautiful, soft, rosy pink. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**385. INDIGO KING.**—A dark maroon standard, and clear indigo blue wings. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**386. INVINCIBLE SCARLET.**—Flowers of intense and brilliant scarlet pink, of the largest size. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**391. KATHERINE TRACEY.**—Soft, brilliant pink. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**394. LADY BEACONSFIELD.**—The standards are of light salmon pink, wings pale primrose yellow. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**395. LADY PENZANCE.**—One of the most beautiful of Eckford's introductions. The standard is a beautiful laced pink, touching orange, while the wings are a darker and purer pink. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**396. LOTTIE ECKFORD.**—New and a free bloomer, color lavender, shaded with pink and white. Very handsome. Ounce, 5c.  $\frac{1}{4}$  pound, 15c.

**397. LOTTIE HUTCHINS.**—Daintily flaked with pink on cream ground, making a rich and lovely effect. The flowers are of well-expanded grandiflora type, large in size and finely formed, borne on heavy, substantial stems.

**398. LOVELY.**—The most beautiful soft-shell pink; grand flowers of large size.

**399. MARS.**—Bright, fiery crimson, deepening with age; a large, round, expanded standard.



**400. MRS. ECKFORD.**—Color a peculiarly delicate shaded primrose yellow. Decidedly pretty.

**401. MRS. GLADSTONE.**—On opening, the flowers are buff and soft pink, changing to a beautiful pale blush. Standard pink, deepening in color at the base, and wings flesh-tinted.

**402. MRS. SANKEY.**—Black seeded. Large white flower, changing to blush.

**406. ORANGE PRINCE.**—Bright orange pink, flush scarlet; wings of rich rose, veined with pink.

**408. PRIMA DONNA.**—Lovely soft rose pink, of large size and fine form; a gem.

**409. PRIMROSE.**—Distinct as the nearest approach to yellow in Sweet Peas. Standard and wings of a pale primrose yellow color.

**410. PRINCESS BEATRICE.**—Flowers of a clear and beautiful carmine rose, slightly shaded.

**411. PRINCESS OF WALES.**—Color, white ground, shaded and tinged with mauve.

**412. PRINCESS VICTORIA.**—Standard, dark cherry; wings, mauve pink, and slight lines of rose.

**416. QUEEN OF THE ISLES.**—Scarlet mottled and flaked with purple and white.

**419. RED RIDING HOOD.**—Standard and wings are a rosy pink, shading to bluish white at calyx.

**420. ROYAL ROBE.**—Standards a rich, but delicate pink, wings a soft bluish pink.

**422. SHAHZADA.**—Flowers of large size and fine, expanded form; coloring rich dark maroon, with a tint of purple in the center of the standard and the inner portion of the wings.

**423. STANLEY, OR BLACK KNIGHT.**—A deep maroon; a large and very handsome flower of the finest form and abundance.

**424. THE SENATOR.**—Large flowers, shaded chocolate and bright brown, and striped on a creamy-white ground-color; mottled and blotched in every conceivable manner.

**427. VENUS.**—Salmon buff; the standards delicately shaded with rosy pink. Prices on above: Oz., 5c.  $\frac{1}{4}$  lb., 15c.

**430. G. & T. CO.'S EXTRA FINE MIXED.**—This is a splendid mixture of our own, which includes nearly all the above varieties.

**431. ECKFORD'S LARGE FLOWERING MIXED SWEET PEAS.**—Contains some of each of our entire list of Eckford's varieties. Ounce, 5c.  $\frac{1}{4}$  pound, 15c. Pound, 35c.

## CUPID DWARF SWEET PEAS.

**435. PINK CUPID.**—Standard bright rose pink; wings either white or blush. The seed is black and germinates readily; a thrifty grower and continuous bloomer. Pkt., 5c.  $\frac{1}{4}$  oz., 20c.

**436. WHITE CUPID.**—Pure white flowers. Pkt., 5c. Oz., 20c.

**437. BEAUTY CUPID.**—Packet, 5c. Ounce, 20c.

**438. PRIMROSE CUPID.**—Packet, 5c. Ounce, 20c.

**439. ALICE ECKFORD.**—Packet, 5c. Ounce, 20c.

# PLANT DEPARTMENT

## VEGETABLE PLANTS.

We are now prepared to furnish all kinds of Vegetable and Flowering Plants at short notice. All of our plants are grown specially for us, and we are in a position to offer our patrons THE MOST COMPLETE ASSORTMENT TO BE FOUND IN THIS COUNTRY IN ANY ONE ESTABLISHMENT, AND AT PRICES AS LOW AS SAME QUALITY OF GOODS CAN BE OBTAINED ANYWHERE. Want of space forbids naming all varieties. Cash must accompany all orders. We do not ship plants C. O. D.

**BEET.**—Eclipse, Crosby, Egyptian. 40c. per 100; \$2.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail. Special prices on 10,000 lots.

**BRUSSELS SPROUTS.**—50c. per 100; \$2.50 per 1000. By express not prepaid. Add 10c. per 100 if by mail.

**CABBAGE.**—All the leading varieties. From December 1st to May 1st frame grown. 40c. per 100; \$1.25 per 500; \$2.00 per 1000. Field grown, from May 1st to December 1st. 30c. per 100; \$1.25 per 500; \$1.75 per 1000. By express not prepaid. Add 10c. per 100 if by mail. Special prices in 10,000 lots.

**CAULIFLOWER.**—Early Snowball, 75c. per 100; \$4.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail.

**CELERI.**—All the leading varieties. 40c. per 100; \$1.25 per 500; \$2.00 per 1000. By express not prepaid. Add 10c. if by mail. Special prices in 10,000 lots.

**EGG PLANT.**—Imp. Baltimore from seed bed. 50c. per 100; \$4.00 per 1000. Pot grown—50c. per dozen; \$4.00 per 100. By express not prepaid. Add 10c. per 100 if by mail.

**KOHL RABI.**—Early white Vienna. 50c. per 100; \$3.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail.

**LETTUCE.**—Ready at all seasons. All the leading varieties. 30c. per 100; \$1.25 per 500; \$2.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail. Special prices in large quantities.

**PARSLEY.**—For fall planting. Large strong roots. \$1.00 per 100; \$4.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail.

**PEPPER.**—20c. per dozen; 50c. per 100; \$3.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail.

**SWEET POTATO.**—50c. per 100; \$1.50 per 500; \$2.75 per 1000. By express not prepaid. Add 10c. per 100 if by mail.

**TOMATO.**—All the leading varieties. Ready February 1st, small plants for transplanting—\$1.50 per 1000. Ready April 1st, cold frame plants—40c. per 100; \$1.25 per 500; \$2.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail. Special prices in quantities. Cash must accompany all orders for plants.

### ALL OF ABOVE SEED BED PLANTS.

## Greenhouse Potted Plants.

### PRICES ON 100 AND 1000 BY EXPRESS NOT PREPAID.

Our collection of Greenhouse Potted Plants has been very carefully revised, and the varieties have been selected with great care, cutting out those of lesser value. Our Cannas, Chrysanthemums, Dahlias, Geraniums, Roses, etc., may appear small, but we wish to present to our friends a condensed list of nothing but the best, and avoiding a long list which only tends to confuse the buyer. Other varieties, however, possess merit, and a further descriptive list can be had on application. Will state in passing that we can furnish most anything in this line.



ABUTILON SOUV. DE BONN.

### ABUTILONS.

(FLOWERING MAPLE.)

A Beautiful Plant for Bedding and Window Garden.

**THOMPSONII.**—Large robust foliage. Dark green, beautifully marked yellow.

**SAVITZII.**—A Japanese variety that is bound to become a popular decorating plant, as its perfectly variegated green and white foliage contrasts nicely with any other plant with which it may be placed. The growth is dwarf and very compact, making a fine pot plant for house culture; best for bedding.

**SOUVENIR DE BONN** (See Cut).—Beautifully variegated leaves of good size, regularly and evenly marked with white and green; orange-colored flowers.

Prices of Any of the Above Plants:

Each.....10c. Per dozen.....\$1.00  
Per 100, by express not prepaid.....6.00

### ACALYPHA.

**MACAFEANA.**—A handsome variegated foliage bedding plant, which may be used in connection with Coleus, Crotons, or other foliage plants for sub-tropical bedding. 10c. each. (See cut).



### AGERATUM.

**INIMITABLE.**—This new variety is a giant in the size of its flowers as compared with the sorts now grown, being fully twice as large, and are produced in large heads on strong stout stems. The plant is of compact growth, about 9 inches high, and very free-flowering. The color is a lovely lavender-blue, unquestionably the finest Ageratum in existence. 15c. each; \$1.50 per doz.

### STELLA GURNEY.

Dwarf Blue.....75c. dozen.  
Dwarf White.....75c. dozen.



ACALYPHA MACAFEANA.

### ALTERNANTHERA.

A beautiful class of dwarf plants growing only 6 inches high, admirably adapted for forming letters, ribbon lines, edgings or bed. Can be cut with shears, and, like long grass, grows thicker and stronger. Initials marked on the lawn with these plants is very pleasing.

**AUREA NANA.**—Bright golden yellow.

**BRILLIANTISUM.**—New. Brilliant scarlet; when worked on the lawn or with other plants the effect is very striking.

**PARONYCHOIDES MAJOR.**—The Best red.

**ROSEA NANA.**—Rosy crimson.

**VERSICOLOR.**—Chocolate, green and red.

Plants, each, 10c. Per doz., \$1.00.

By express, not prepaid, per 100, \$6.00.

### PLANTS BY EXPRESS.

We do not deliver plants free by express; the purchaser pays the charges, and unless instructed to the contrary, orders will be forwarded by express.

Orders for plants will be forwarded at the proper time for planting, according to variety.

# BEGONIAS.

These are now among the most popular plants for beds of summer flowers. Nothing can exceed the brilliancy and richness of their flowers. From the time the first blossom appears until all growth is stopped by frost they are never out of bloom.

## Flowering Varieties.

**VERNON.**—Beautiful waxy foliage. Dwarf, compact grower. Splendid for bedding in semi-shady places.

**ALBA.**—White flowers tinted delicate pink.

**ROSEA.**—Beautiful light begonia pink.

10c. each. \$1.00 per dozen.



SPECIMEN PLANT FLOWERING BEGONIA.

Few flowering plants combine so many fine qualities as the modern Canna—a race of sub-tropical bulbous plants, of most easy culture, rapid reproduction and good keeping qualities. The floral world has been astonished by their luxuriance of foliage and gracefulness of bloom, which is of immense size, borne in large masses and trusses, combining in color the brightest and richest shades of yellow, red, orange and scarlet, bringing them to the front as the finest ornamental plant in commerce. Useful for garden, greenhouse or sitting-room.

**ALLEMANIA.**—Exceptionally large flowers, frequently measuring 6½ inches across, the upper petals salmon, with broad border and markings of golden yellow, while the lower petals are dark salmon marked with yellow in the center; foliage dark green; 6 feet.

**BLACK BEAUTY.**—New dark-leaved Canna; has the richest bronzy purple foliage, shaded black with crimped wavy margins, small crimson flower; 5 feet high.

**CHARLES HENDERSON.**—Probably the most popular crimson Canna in cultivation, of uniform, compact habit, rarely exceeding 3½ feet in height.

**CHICAGO.**—Has been pronounced the best of all red varieties. Color clear, deep vermillion, smooth and without markings, except a purplish gloss.

**DAVID HARUM.**—Deep bright vermillion, bronze foliage, 3½ feet high.

**DUKE OF MARLBOROUGH.**—Beautiful crimson maroon; the largest Canna grown. A sturdy, erect grower, with fine metallic green foliage; 4 feet.

**EGANDALE.**—Fine dark variety; flowers of a soft currant red; 3½ feet.

## BEGONIA REX

(Ornamental-leaved Varieties)

Many improvements have been made in recent years in this useful house plant.

15c. each. \$1.50 per dozen.

## CANNAS.

Specimen Plant, Ornamental-leaved Begonia.

**FLORENCE VAUGHAN.**—The finest yellow-spotted variety yet sent out. The foliage is massive and of rich green color; 4 feet.

**ITALIA.**—Is of a bright orange-scarlet, with a very broad yellow golden border. The flowers, which are produced on massive stems, about 16 inches long, are set well above the foliage, which is large and heavy, similar to that of the Musa Ensentia; 6 feet. (See cut).

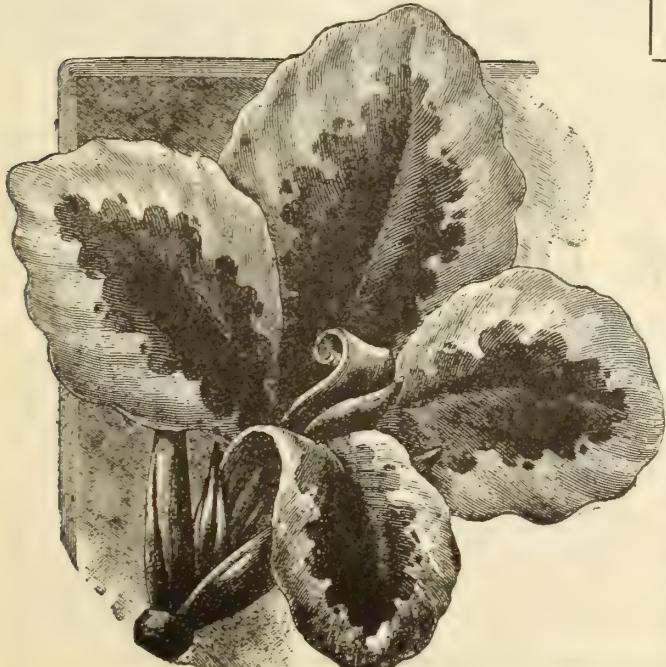
**MADAME CROZY.**—Flowers of dazzling crimson scarlet, bordered with golden yellow. A marvelous and rich combination of colors. The plant is of vigorous growth, yet very dwarf in habit, rarely exceeding 4 feet in height.

**QUEEN CHARLOTTE.**—This new German sort is one of the handsomest scarlet varieties ever introduced, having a distinct golden belt around each petal. Height, 3½ feet. (See cut.)

**SHENANDOAH.**—Rich ruby red or bronze foliage, exquisitely veined and tinted. The beautiful rose pink flowers are produced in large trusses very early and abundantly.

Nice pot-grown plants of any of the above Cannas, 15c. each. \$1.50 per dozen. \$10.00 per 100. By express, not prepaid.

DRY OR DORMANT ROOTS OF THE ABOVE CANNAS.  
Each, 5c. Per dozen, 35c. By express, not prepaid.



QUEEN CHARLOTTE.



ITALIA.

# CHRYSANTHEMUMS

## HARDY POMPONE

THESE beautiful small-flowered varieties are certain to become popular for outdoor bedding purposes. They are absolutely hardy and produce an abundant profusion of blooms, and the plants lend a coloration to the garden just at a time when other plants have been destroyed by frost and are looking their worst. Frost does not materially affect the flowering, and it will frequently happen that an armful of flowers can be cut after a sharp frost. The collection we offer embraces all the leading colors, and, with but a slight covering of leaves or coarse stable litter during the winter, will take care of themselves after once planted.

**Carey**—Orange.  
**Boston**—Bronze Scarlet.  
**Bohemia**—Pure Fine Yellow.  
**Cerise Queen**—Cerise Pink.  
**Dawn**—Daybreak Pink.  
**Ermine**—Bright Orange Scarlet.  
**Fred J.**—Red Orange.  
**Henrietta**—Rose Pink.  
**Hijos**—Primrose Pink.  
**Jannett**—Orange Edged Scarlet.  
**Julia Lagravere**—Crimson.  
**King Henry**—Large White.  
**Little Pet**—Rich Violet Red.  
**Montclair**—Red Orange, Yellow Center.  
**Mrs. Porter**—Bright Bronze.  
**Peto**—Terra Cotta Red.  
**Queen of Bul**—Violet Rose.  
**Queen of Whites**—Fine Creamy White.  
**Rhoda**—Pink Shaded White.  
**Rufus**—Crimson Maroon.  
**Salem**—Clear Silver Pink.  
**Stratagem**—Dark Red Orange.  
**Tennyson**—Pure Yellow.  
**Tivoli**—White Edged Rose.

Price 10c. each; per dozen, 75c.; per 100, \$5.00, by express, not prepaid.



## COLEUS

### FIFTEEN CHOICE VARIETIES.

10c. each; 75c. per doz.; \$4.00 per 100, by express, not prepaid.

# “BONORA.”

The new wonderful discovery, good for flowering plants of all kinds, vegetables, shrubbery, lawns, fruit and shade trees, etc. It contains an abundance of active plant food in a condensed form, and a trial with its consequent results will fully demonstrate its wonderful qualities. It matures a crop two to three weeks earlier, largely increasing the same, greatly improving it in every detail. It is, in fact, to plant life what blood is to human life, and enters the life of the plant as electricity does the wires. It is easily applied; no odor, and gives immediate and lasting results. To vegetable growers **BONORA** is a veritable boom, as attested to by the high-class endorsements we are daily receiving. A trial will convince the most skeptical, and once used you will never be without it.

Dry form, all size packages, as follows:

Mailing package, making 56 pints.....	\$3.30
Mailing package, making 28 gallons.....	.65
5-pound package, making 140 gallons.....	2.50
10-pound package, making 280 gallons.....	5.00
40-pound package, making 1120 gallons.....	20.00
100-pound package, making 2800 gallons.....	42.50

## THE RURAL NEW-YORKER.

NOVEMBER. 4.

**BONORA ON CABBAGES AND FLOWERING PLANTS.**—We have before mentioned the effectiveness of **BONORA**, a commercial plant food, on various plants. The makers now claim to have improved it by the addition of a lacking ingredient, making it a complete fertilizer, without changing its convenient, odorless character. Having at hand some of the new **BONORA**, we tried it on a dozen late cabbage plants set in poor soil that had ceased growth and showed no indications of forming heads, and on 50 plants of a choice variety of Phlox Drummondii growing thickly in a “flat” or three-inch box of soil. The Phlox plants were showing signs of starvation in spindly growth and yellow foliage. Four applications, one week apart, of one part **BONORA** to 100 of water, were made both to the cabbages in the garden and the flower plants in the box. The result was renewed growth, visible at end of first week, deep green color of foliage in two weeks in both cases, 11 solid heads of cabbage in the garden and a mass of brilliant bloom covering the crowded Phloxes at this writing, eight weeks after the first application. Both lots of plants were in condition to respond to any good, quick-acting fertilizer, but with some experience in handling home and commercial manures we have never found anything to equal **BONORA** for quick and positive effect when additional plant food is plainly needed.



## THESE PLANTS DEMONSTRATE THE RESULTS

OBTAINED FROM “BONORA.”

Both were the same Size Before Treatment.



# DAHLIAS

Potted Plants ready April 15.

Prices by the dozen and hundred are by express, not prepaid.

## Sou. de Gustave Douzon (Cut $\frac{3}{4}$ original size.) (THE KING OF ALL DAHLIAS.)

The cut gives only an idea of what this magnificent flower really is, but does not do it justice. It should be seen in nature to be fully appreciated.

When perfect, the bloom measures 7 inches across, with some of its petals 3 inches long by  $1\frac{1}{2}$  inches wide.

It should be called the King of all, as the word King seems to apply to something far above the ordinary. Its color is a very attractive shade of orange red, flowers of fine and symmetrical form.

All lovers of Dahlias should have it in their collection. It is impossible to give an exaggerated description of this grand flower. Price, 60c. each; \$6.00 per dozen.

## New Collection Cactus Dahlias.

The sorts named in this collection are selected from the latest varieties, imported during the past winter. Plants only.

**ALPHA.**—White speckled and striped purple lilac.

**CHARM.**—Red rose, base of petals yellow.

**DAINTY.**—Lemon yellow center, shading to glowing rose.

**HOBBIES YELLOW.**—Bright golden yellow.

**INNOCENCE.**—Bright yellow base, broadly margined white.

**JESSIE.**—Beautiful deep rosy pink, white center.

**LORD OF THE MANOR.**—Bright crimson, base of the petals tinged yellow.

**MORNING GLOW.**—Deep primrose, tip tinged amber.

**RADIUM.**—Orange rose, center fading to rose.

**ROYAL SCARLET.**—Bright scarlet, large and full.

## New Collection Cactus Dahlias—Cont.

**SWEET NELL.**—Deep pink, a paler center.

**THOS. PARKIN.**—Bright terra cotta; incurved petals.

Price 50c. each.

## Standard Cactus Dahlias.

**COUNTESS OF LONSDALE.**—Lustrous salmon pink, blending with amber.

**J. WEIR FIFE.**—Purplish maroon, rich and glowing. Very distinct and striking.

**KRIEMHILDE.**—Beautiful clear pink, shading lighter towards the center.

**MRS. H. J. JONES.**—Margin of petal deep crimson, with broad stripe of white running through the center, blending harmoniously.

**VOLKER.**—Charming free flowering; pure yellow.

**WINSOME.**—Fine creamy white, of good size and form. Best for cut flowers.

**BRUNHILDE.**—Color, deep rich velvety plum.

**BRITANNIA.**—Deep salmon fleshed. Early.

**GENERAL BULLER.**—Cardinal red, with crimson shadings; petals tipped with white.

**EARL OF PEMBROKE.**—Bright plum, long-pointed petals; fine form and finish.

**MRS. WINTERS.**—Finely-formed, large snow-white variety.

**STROHLEIN KRONE.**—Tints cardinal red. Very beautiful. Price 10c. each. \$1.00 per dozen.

## Collarette Varieties.

**PRESIDENT VIGER.**—Deep blood red, shading darker toward base of the petals, with white collar.

**JOSEPH GOUJON.**—Orange red, shading to deep red, with light canary yellow collar. Price 15c. each. \$1.50 per dozen.

# DAHLIAS (Continued)

## Collection of Double Giant Flowering.

**MISS BROWNING**—Canary yellow, each petal tip.  
**CUBAN GIANT**—Full round form, dark glowing crimson, shaded maroon. Largest of all show Dahlias.  
**GETTYSBURG**—A bright, rich, pure scarlet; full round form.  
**MME. VAN DEN DEYL**—Immense size and beautiful form. Color soft shell pink and deeper markings. Profuse bloomer.  
**MRS. ROOSEVELT**—Beautiful blush white, shading to soft, clear pink, of immense size and substance. Price 30c. each. Four for \$1.00. Per dozen, \$3.00.

## New Century Single Dahlias.

**CRIMSON CENTURY**—Rich deep velvety crimson, shaded maroon, with rose halo around a yellow disc.  
**GORGEOUS**—Brilliant, dazzling scarlet, without shade or blemish, except occasionally a stripe of white or a white petal.  
**PINK CENTURY**—Delicate shell pink, slightly suffused with deeper tint.  
**RECORD**—Clear yellow, each petal flamed and washed with scarlet.  
**TWENTIETH CENTURY**—Color an intense rosy crimson, tipped with white, and having white disc around the yellow center.  
**WHITE CENTURY**—Pure white with yellow disc; large overlapping petals of good texture. Price 30c. each. Six for \$1.50. Per dozen, \$3.00.

## Six Fancy Show Varieties.

**ELOISE**—Distinct variety, full and regular; ground color of bluish pink, shading to white, having each petal margined with deep glowing crimson.  
**KAISEL WILHELM**—Old gold, tipped orange scarlet.  
**KEystone**—Pink, spotted and striped with crimson, of large size.  
**LUCY FAWCETT**—Canary yellow striped and blotched.  
**LOTTIE ECKFORD**—White, spotted and blotched purple.  
**STRIPED BANNER**—Cardinal red, striped white. Price 15c. each. Per dozen, \$1.50.

## Twelve Best Decorative Varieties.

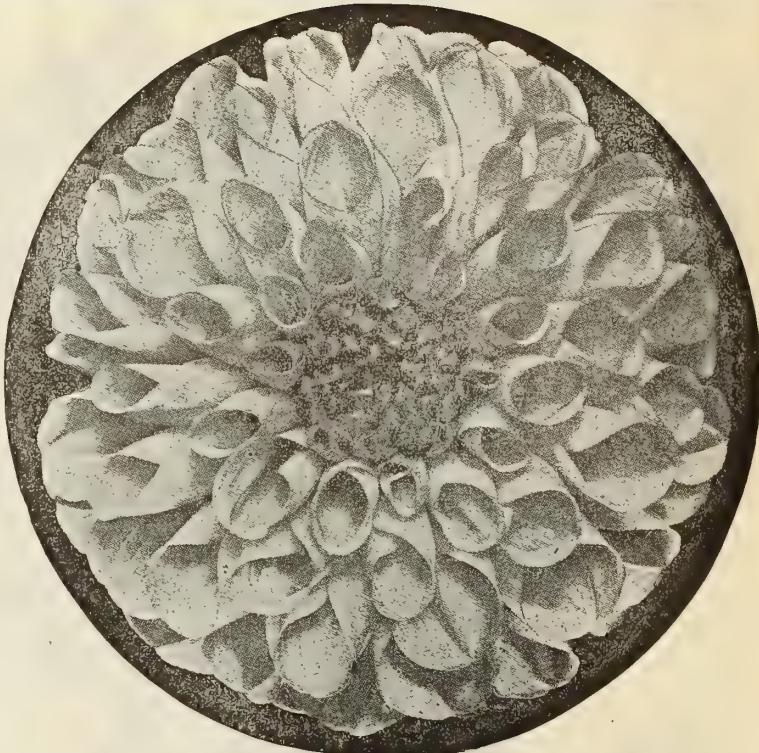
**BLACK BEAUTY**—A grand deep maroon of distinct form.  
**CLIFFORD W. BRUTON**—Canary yellow of immense size; very vigorous grower; free bloomer.  
**COUNTESS OF PEMBROKE**—Soft rosy lake.  
**EUREKA**—Deep rose, fine regular form, quilled petals, of dwarf branching habit. Early and profuse bloomer; long stems.  
**GLORIOSA**—Bright scarlet; fine form.  
**GRAND DUKE ALEXIS**—Magnificent flower of large size. Pure white, delicately tinged with pale lavender; quilled petals; finest form and finish.  
**HENRY PATRICK**—Superb large pure white, petals broad and pointed, long stems. One of the finest.  
**PERLE D'OR**—Handsome white, spotted and blotched purple.  
**MISS MAY LOMAS**—White, tipped with rosy lavender.  
**MRS. HARTONG**—Golden bronze.  
**WM. AGNEW**—Immense size, intense dazzling scarlet crimson, of perfect form. Very profuse bloomer and a great favorite.  
**OBAN**—Rose salmon. Price 10c. each. \$1.00 per dozen. \$6.00 per 100.

## Twelve Best Show Varieties.

**ARABELLA**—Pale primrose, shaded old rose and lavender.  
**A. D. LIVONNII**—Seashell pink of perfect form.  
**CAMELIA FLORA**—Snow white, best for cut flowers.  
**ELECTRIC**—Pinkish lilac.  
**JOHN ELITCH**—Beautiful dark rich maroon, robust grower, with long stems.  
**MAID OF KENT**—Variegated crimson and white.  
**MRS. GLADSTONE**—Delicate shell pink, shading to blush.  
**M. D. HALLOCK**—Clear yellow.  
**ORLANDO**—Buff salmon shaded over amber.  
**PENELOPE**—White; flaked and tinted lavender on edges.  
**RUBY QUEEN**—Rich dark maroon.  
**ZEBRA**—White, edged with bright lilac. Price 10c. each. \$1.00 per dozen.

## Pompon Varieties.

**ALLIE MOUREY**—Very fine deep pink.  
**CATHERINE**—Best pure yellow.  
**LELIA**—Flesh mottled, deep crimson.  
**RAPHAEL**—Deep maroon of fine form.  
**SNOW CLAD**—Pure white dwarf.  
**SUNSHINE**—Vivid scarlet. Price 10c. each. \$1.00 per dozen. \$4.00 per 100.



MRS. ROOSEVELT.

**DAHLIA ROOTS IN SEPARATE COLORS.**  
 Large clumps, 10c. each. \$1.00 per dozen by express,  
 not prepaid.

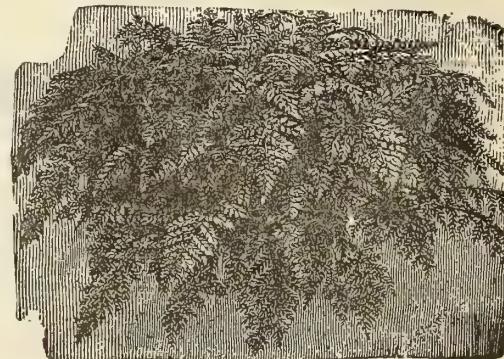
## FERN BALL "MIKADO."

**Directions for Starting**—Place ball in water for 15 minutes and then suspend in any desired position; repeat every two days till growth is started, after which sprinkle occasionally as required. To use in fern dish, cut ball in halves, placing flat side down, thus getting two dishes of beautiful ferns. The Fern Ball may be allowed to dry up at any time and be set away, and start again by watering as before.

### THE BEST HOUSE PLANT NOVELTY IN TEN YEARS.

These balls consist of Fern roots about the size of a pencil, woven outside and around a ball of moss. These roots produce beautiful sprays of ferns from eyes or buds at nearly every inch of their length. Thus the whole surface of the ball soon becomes covered with fern sprays. They may be suspended in any part of the room or grown on a stand or table.

**PRICES.**—Dormant Balls, first size, 25c. each, three for 65c.; large size, 30c. each, three for 85c. By mail, 10c. extra.



## FUCHSIAS.

**MR. GLADSTONE**—This is the largest double purple Fuchsia extant; enormous widespread corolla, and stamens are curiously attached to the petals; extremely free. A startling variety.  
**MINISTER BOUCHER**—Extra large double rosy purple flower. Free, strong grower. Very full, wide corolla.  
**BLACK PRINCE**—Bright waxy carmine; pink corolla.  
**PHENOMENAL**—Dark plum, red sepals.  
**ANNA NEVILLE**—Double pink sepals. Price 10c. each. \$1.00 per dozen by express, not prepaid.



JEAN VIAUD

## GERANIUMS.

**JEAN VIAUD.**—The finest semi-double pink Geranium that we have ever seen. Brilliant rose pink, with white throat, fresh and exquisite, very attractive semi-double flowers; trusses of enormous size, sometimes measuring six inches in diameter, on long rigid stems; a continual bloomer, the plant being covered throughout the entire season. Habit ideal; its dwarf stocky form is all that could be desired; its iron-clad constitution and its ease of cultivation render it one of the finest geraniums that we have for bedding. With its freedom of bloom, it is an excellent pot variety.

15c. each; \$1.50 per dozen.

### TWELVE STANDARD DOUBLE.

- ALPHONSE RICARD**—Bright vermillion scarlet.
- BEAUTE POITEVINE**—Aurora pink.
- MAD. CANOVAS**—Rich scarlet maroon.
- GLOIRE DE FRANCE**—White, pink shading.
- MME. CHARLOTTE**—Rosy salmon pink.
- MME. JAULIN**—Peach pink.
- MME. LANDRY**—Beautiful apricot salmon.
- MADONNA**—Pure white of special merit.
- MARQUISE DE MONTMORT**—Carmine pink.
- S. A. NUTT**—Deep scarlet crimson.
- THOMAS MEEHAN**—Rosy pink.

Price 10c. each; \$1.00 per dozen.

## FICUS.

### RUBBER PLANT.

Each, 50c. By mail, 55c.  
\$5.00 per dozen by express, not prepaid.

**LEMON VERBENA** (*Aloysia citriodora*).—10c. each; \$1.00 per dozen.

### HELIOTROPE.

Old-time favorites, popular on account of their fragrant blossoms. They thrive equally well on the lawn or in the house.

Each, 10c. Per dozen, \$1.00.

**HARDY ENGLISH IVY.**  
10c. each. \$1.00 per dozen.  
Prices in large quantities on application.

### LANTANAS.

An old favorite for bedding or individual plant purposes, but on account of the great improvement in shades in the last few years they are becoming more and more popular. 10c. each \$1.00 per dozen.

**A. CLAVEN**—Primrose pink and sulphur.

**A. COOK**—Orange and rose; dwarf, compact habit.

**AURORA**—Tall, orange and coppery red.

**DELICATISSIMA, or WEEP-**

**ING**—Lilac lavender.

**JAVOI**—Tall; clear, pure white, yellow center.

**LEO DEX**—Open orange scarlet; changes to dark crimson.

## MOON FLOWER

**BLUE AND WHITE.**—10c. each; 6 for 50c.; \$1.00 per dozen.

## GERANIUMS—Continued.

### COLLECTION OF BEST SINGLE VARIETIES.

**BEAUTY OF RICHMOND.**—Brilliant crimson scarlet, with white featherings in upper petals.

**MME. A. MAHIEN**—Deep rose.

**MRS. E. RAWSON**—Semi-dwarf, salmon scarlet, base of upper petals shaded violet crimson.

**NUIT POITEVINE**—Rosy purple, maroon shading.

**PRINCESS ALEXANDRA**—Beautiful salmon rose, having very large truss.

**TELEGRAPH**—Large single flowers, in rounded trusses, of a rich orange cerise, having

dark green foliage, with dark olive zone.  
Price 15c. each; \$1.50 per dozen.

### SIX STANDARD SINGLE VARIETIES.

**GRANVILLE**—Bright rose pink.

**JACQUERIE**—Crimson scarlet.

**L'AUBE**—Pure white, large flowers.

**MME. BRUANT**—Pure white, carmine shading.

**MRS. E. G. HILL**—Beautiful salmon pink.

**DRYDEN**—Bright soft crimson, white center.

Price 10c. each; \$1.00 per dozen.

### BEST STANDARD DOUBLE.

**BERTHA DE PRESSILLY**—Silver rose.

**DOUBLE DRYDEN**—Pure white center, petals shading to rosy scarlet.

**E. H. TREGO**—Brightest scarlet.

**FLEUR BLANC**—Double white, elegant form, fine size.

**PETER HENDERSON**—Superb bright orange scarlet.

**VILLE DE POITERS**—Rosy scarlet, very clear and bright.

Price 15c. each; \$1.50 per dozen.

**SWEET-SCENTED GERANIUMS.**—Balm, Rose, etc. Six varieties. 10c. each; 6 for 50c.; 30 for \$2.00.

**IVY GERANIUMS.**—From 2½-inch pots. 10c. each; \$1.00 per dozen.

**OLD STANDARD VARIETIES**—Our selection. 10c. each; \$1.00 per dozen by express, not prepaid.

**PEONIES.**

One of the most popular hardy plants grown for lawn and garden decoration.

**DOUBLE CRIMSON.**

**DOUBLE WHITE.**

**DOUBLE ROSE.**

Price 25c. each; \$2.50 per dozen. Postage extra 5c. each if wanted by mail.

**HARDY PHLOX.**

**ANDREAS HOFFER.**—Pure white.

**AQUILON.**—Crimson rose, shaded salmon, crimson eye.

**BACCHANTE.**—Fine, dark crimson.

**BERANGER.**—White, suffused with pink.

**BRIDESMAID.**—Pure white, large crimson eye.

**COQUELICOT.**—Pure scarlet, carmine eye.

**LA NUIT.**—Crimson purple.

**LA VOGUE.**—Rose pink.

**MARIE STUART.**—White, pink eye; an early bloomer.

**MATADOR.**—Orange scarlet, red eye.

**R. P. STRUTHERS.**—Brilliant rosy red, crimson eye.

Price 10c. each. \$1.00 per dozen by express.

**PLUMBAGO.**

**CAPENSIS.**—Light sky-blue.

**CAPENSIS FLORA ALBA.**—White.

**LADY DARPENT.**—Hardy; deep blue.

Price 10c. each. \$1.00 per doz. by express prepaid.

**SILVER SPOT.****SCARLET SAGE.**

The most distinct feature of this novelty is its striking and handsome spotted foliage. The leaves are covered with sulphur-yellow spots of various sizes; flowers are bright scarlet and large size. 10c. each; \$1.00 per dozen; \$6.00 per 100.

**SCARLET SAGE, OR SALVIA CLARA BED-MAN OR BONFIRE.**—Dwarf. The fire-like appearance of the flowers standing erect among the green foliage gives the plant a most gorgeous appearance. 10c. each; \$1.00 per dozen; \$6.00 per 100.

**SCARLET SAGE, OR SALVIA SPLENDENS.**—Tall, erect, green foliage. The well-known Salvia. 10c. ea.; \$1.00 per doz.; \$6.00 per 100.

**— IRIS —****JAPANESE IRIS (Kaempferi).**

These magnificent Japanese Iris are among the most beautiful of our summer flowering plants, and are destined to become great favorites. They commence flowering early in July, and continue in bloom for five or six weeks, if plentifully supplied with water while growing and flowering. Many of these flowers measure from 10 to 12 inches in diameter, and almost rival the Orchids in their rich colorings and markings. Each, 15c.; 4 for 50c. If by mail, add 5c. per dozen.

**ENGLISH IRIS (Anglica).**—Large, handsome flowers with rich purple, blue and lilac colors predominating; grows 18 to 20 inches high; perfectly hardy. Mixed varieties. 10c. each; 40c. per dozen. If by mail, add 5c. per dozen for postage.

**GERMAN IRIS (Iris Germanica).**—This variety is the true "Fleur-de-Lis," the national flower of France. They are perfectly hardy, thrive anywhere, grow and bloom luxuriantly, particularly if plentifully supplied with water or if planted in moist situations, as on the banks of ponds, etc. Plants well established produce from 50 to 100 spikes of bloom, deliciously fragrant and fine for cutting. In beauty the flowers rival the finest Orchids, colors ranging through richest yellows, intense purples, delicate blues, soft mauves, beautiful claret reds, white, primroses, and bronzes of every imaginable shade. Mixed varieties, 10c. each; 40c. per dozen. Ready in November.

**SPANISH IRIS.**—Excellent for pot culture, and are now being grown for cut flowers. Plant in the open ground in autumn and protect slightly during the winter months. Early in April cover the beds with glass and flowers will be ready for cutting in May. Mixed varieties, 10c. each; 40c. per dozen. If by mail, add 5c. per dozen for postage.

**YUCCA**

A hardy evergreen plant with long narrow leaves that are bright green the whole year. The flowers are creamy white, bell-shaped, produced on long spikes 3 to 4 feet high. Fine stately lawn plant.

**FILAMENTOSA GLORIOSA (Adam's Needle).**—Price one year old, 10c. each; \$1.00 per dozen. Two years old, 10c. each; \$1.50 per dozen.



## PETUNIA.

For outdoor decoration or house culture few plants equal the Petunia in effectiveness. They commence flowering early and continue a sheet of bloom throughout the whole season until killed by frost; easily cultivated, only requiring a good soil and sunny position.

### SUPERB DOUBLE FRINGED.

**COMEDY.**—Bright amaranth red; edged with pure white.

**HARMONY.**—A fine self-colored soft mauve rose, occasionally mottled with white.

**DEFENDER.**—A fine double white.

**COMET.**—Brilliant French purple; mottled white.

**TALMA.**—Pure white; mottled with deep carmine violet.

Named varieties, 15c. each; \$1.25 per dozen.



### SUPERB DOUBLE FRINGED MIXED.

10c. each; \$1.00 per dozen.

### SUPERB SINGLE FRINGED MIXED.

10c. each; \$1.00 per dozen.

(Ready April 1st.)

### FLOWER TUBS.



#### COLUMBIA, No. 1 PLAIN.

Made of cypress. Natural varnish finish on the wood, or if wanted can finish them in oil paint, but to order only.  
12 inches in diameter by 11 inches high..... Each \$1.00  
15 inches in diameter by 14 inches high..... Each 1.50  
18 inches in diameter by 16½ inches high..... Each 2.00  
21 inches in diameter by 18½ inches high..... Each 2.50  
24 inches in diameter by 20½ inches high..... Each 3.00

### U. S. FLOWER TUBS.



No. 1

Cypress, Painted Green.  
Iron Feet and Iron Bound.  
No. 1-13x11.

Each.....		1.00
Each.....	No. 2-14½x13.	1.25
Each.....	No. 3-16x15	1.75
Each.....	No. 4-20x18.	2.50
Each.....	No. 5-24x21.	3.00

flowers, 15c. each; 4 for 50c.; \$1.25 per dozen.

**NYMPHEA ODORATA GIGANTEA.**—A superb variety, and should be in every collection. Similar in all respects to Nymphea Odorata; flower very large and full. 15c. each; 4 for 50c.; \$1.25 per dozen.

**NYMPHEA ODORATA MINOR.**—Our native pond lily. 15c. each; 4 for 50c.; \$1.25 per dozen.

**PINK CAPE COD WATER LILY.**—Possesses all desirable qualities of Nymphea Odorata. Flowers, large size; cup-shaped; color, lovely deep pink; delicious fragrance; free bloomer; most desirable variety. 40c. each; \$3.50 per dozen.

### HARDY WATER LILIES

The ease with which Water Lilies and Aquatics are cultivated, the certainty of handsome results the same season they are planted, the magnificent flowers of great variety of form and color, their delicate perfume and the great fascination in growing them, is making the water garden widely popular.

**NYMPHEA ODORATA.**—The well-known fragrant pond lily; lovely pure white



**INDURATED FIBRE WARE.** PRACTICALLY INDESTRUCTIBLE. ABSOLUTELY IMPERVIOUS TO WATER. LIGHT WEIGHT. NO JOINTS.

### Florists' Vases.

Diam. in., inside...	Price, each.....
8	13 \$1.00
5½	10 .75
4½	9 .50



Fibre-Ware  
Rolling Stand  
Mounted upon  
casters; easy to  
move heavy  
plants.

Plain.....	Enamaled (green.....	Diam at top, inches.....
12	10	\$ .80
14	11	.90
16	13	1.15

### PARLOR PLANT TUB.



## BULBS FOR SPRING PLANTING.



GLADIOLUS.

## GLADIOLUS

If wanted by mail, add 10c. per dozen  
for postage.

**T**HE cultivation of the Gladiolus is very simple, as they will thrive in any good garden soil, but will amply repay one for careful cultivation. A succession of bloom may be had from July to September by planting at intervals from April to June.

**OUR GLADIOLUS** are from one of the largest growers in the country, and one who has the finest assortment to be had either in this country or Europe; therefore we claim them to be unequalled as to quality.

**MIXED** (all colors), dozen, 25c.; \$1.50 per 100.  
**WHITE AND LIGHT COLORS**, dozen 30c.; \$2.00 per 100.

**EXTRA WHITE AND LIGHT VARIETIES.**—All first-class varieties, made up largely from best named sorts, including ten per cent. of Snow White. 5c. each. 50c. per dozen. \$3.50 per hundred.

**CHILDSI MIXED.**—Extra large and fine. 40c. per dozen. \$3.00 per 100.

**LEMOINE'S** (Mixed).—Extra fine. 35c. per doz., \$1.75 per 100.



## CALADIUMS.

## ELEPHANT'S EAR.

**T**HE Caladium Esculentum is one of the handsomest of the ornamental-leaved plants. It will grow in any good garden soil, and is of the easiest culture. To gain the best result it should be planted where it will obtain plenty of water, and an abundance of rich compost. Roots planted in the spring will make good growth in the summer, and in the fall they should be taken up and stored in a cellar. Leaves three feet or more in length and nearly as broad. There is nothing so good as this Caladium for a grand bed of foliage in the garden.

**FIRST SIZE BULBS** (7 and 9 inches).—Each, 5c.  
By mail, 10c. 50c. per dozen.

**LARGE BULBS** (9 and 11 inches).—Each 10c.  
By mail, 15c. \$1.00 per dozen.

**EXTRA LARGE BULBS** (11 inches and upwards).—Each, 15c. By mail, 20c. \$1.50 per dozen.  
Prices per dozen are by express, not prepaid.



## TUBEROSES.

**O**NE of the most fragrant and popular of the summer flowering bulbs. May be started early in hot beds or pots, or planted in open ground after first day of May.

Each.....	5c.
Dozen.....	25c.
Per 100.....	\$1.00.

By mail 35c. per dozen.

## MADEIRA VINE ROOTS.

Each.....	5c.
Dozen.....	30c.

## SELECT EVER-BLOOMING ROSES.



ETOILE DE LYON (Tea).

**ETOILE DE LYON (Tea).**—One of the best and most beautiful yellow Tea Roses for general planting. It is of good constitution, one of the hardiest of the Teas, and may be had in bloom the entire year by proper treatment. The flowers are of good size, deep and full and very sweet-scented; color, rich golden yellow. (See cut.)

## PRICES (except where otherwise noted):

Two Years Old—

Each.....	50c.
One dozen choice mixed (by express, not prepaid) ..	\$5.00

Six Months Old—

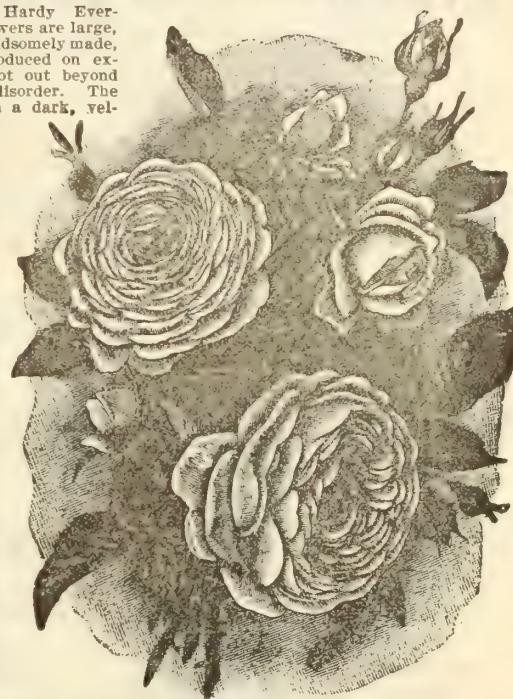
Each.....	15c.
One dozen choice mixed (by express, not prepaid) ..	\$1.25

**GRUSS AN TEPLITZ.**—New Hardy Ever-blooming Hybrid Tea Rose. The flowers are large, full and moderately double; are handsomely made, of splendid substance and are produced on extraordinarily long stems that shoot out beyond the foliage in free yet handsome disorder. The color is fiery crimson, shaded with a dark, velvety sheen, producing the most gorgeous effect ever seen in any rose. It grows to a height of four to five feet, is perfectly hardy in all sections and blooms all the time.

**GENERAL JACQUE-MINOT (Hybrid).**—Too well known to require lengthy description. It still holds first place among the dark red Roses and is one of the most satisfactory to grow. A rich crimson scarlet, simply a mass of bloom when at its best.

**METEOR (Hybrid Tea).**—A velvety red ever-bloomer of the deepest glowing crimson. Flowers very double and petals slightly recurving. A beautiful open rose, a free bloomer and promising well as a pot Rose.

**AMERICAN BEAUTY (Hybrid).**—This variety has been rightly described as an ever-blooming hybrid perpetual. The flowers are very large and double; color, a deep rich rose. The fragrance is delightful. Each shoot produces a bud.



CLOTHILDE SOUPERT (Tea).

**CLOTHILDE SOUPERT (Tea).**—This is the most famous pot and bedding Rose (Polyantha Tea). Its charming coloring, shading from pearl white to purest rose, double blossoms, delightful fragrance, wonderful vigor and freedom of bloom combine to make it a most beautiful Rose.

**GOLDEN GATE (Tea).**—This is a beautiful free blooming and healthy Tea Rose that we can recommend to everyone desiring large flowers, long stem and continuous bloom. The buds are long and pointed, opening out into a well-shaped flower of creamy white, delicately tinged with golden yellow and rose. (See cut.)

**HELEN GOULD.**—Hardy ever-blooming Tea Rose. The flowers are of a rosy crimson, equal in form, color and fragrance to American Beauty. One of the best and strongest bloomers yet introduced.

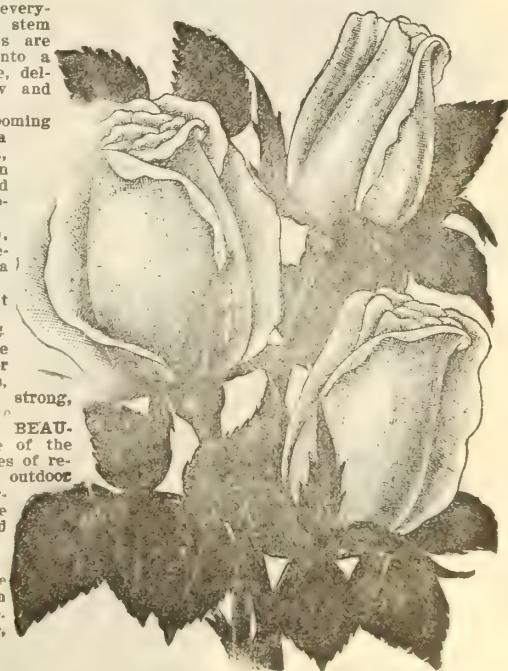
**DUCHESS OF ALBANY (Tea).**—Rich deep pink. An improvement on the well-known La France.

**HERMOSA (Tea).**—Clear bright pink.

**KAISEIRIN AUGUSTA VICTORIA (Hybrid Tea).**—One of the most desirable white Roses for summer bedding; large flowers, produced in great profusion; a strong, healthy grower with large foliage.

**MAMAN COCHET (Tea).**—A BEAUTIFUL NEW TEA ROSE. One of the very best and most valuable Roses of recent introduction, especially for outdoor blooming. The finest pink garden Rose yet introduced. The flowers are of great size and very double; color, bright rose.

**MAD. CAROLINE TESTOUT**—Hardy Hybrid Tea Rose. Large petal of LaFrance form. Both flowers and buds are extra large. The color is brilliant satiny rose, deepening to clear red at center.



WHITE MAMAN COCHET.

**WHITE MAMAN COCHET (Tea—See cut).**—This is a superb variety; snow-white. The flowers are large and very double, making it of more

than ordinary value in open ground.

GOLDEN GATE.

**SAFRANO (Tea).**—Buff, tinted apricot.

## SELECT EVERBLOOMING ROSES.

PRICES (except where otherwise noted):

One dozen choice mixed, two years old.....\$5.00, 50c. each.  
By express, not prepaid.

One dozen choice mixed, six months old.....\$1.25, 15c. each.  
By express, not prepaid.

**BON SILENE** (Tea).—Brilliant carmine.

**BRIDESMAID** (Tea).—The flowers are very large and of fine, regular, full form, delightfully tea-scented; color, clear rose-plum.

A free and constant bloomer; makes elegant buds for cutting.

**SOUVENIR DU PRES. CARNOT** (Tea).—The growth is vigorous, the flower is very large, both in the bud and expanded; opens beautifully. Rosy flesh, very soft in the center, and shaded with a lighter flesh at the end of the petals.

**DUCHESSE DE BRABANT** (Hybrid).—Beautiful buds, deep rosypink, edged with silver; blooms quickly and constantly; one of the best.

**LA FRANCE** (Tea).—Undoubtedly the most perfect type of a cut-flower Rose. No variety surpasses it in delicate coloring—silvery rose, with a satiny sheen over all its petals. Flower large, with the well-known fragrance.

**PAPA GONTIER** (Tea).—Dark crimson red, with long, pointed buds; beautiful for cutting.

**SOUV. DE PIERRE NOTTING**.—Superb new Tea Rose, which is the result of cross of Marechal Niel on Maman Cochet. Blooms very large, well filled and opens easily. Color, apricot yellow tinged with golden, mixed with orange yellow; edge of petals shaded beautiful carmine rose; open flower is full and double and of good substance. In quantity of bloom it is reached by no other known Rose.

Price 1-year-old Plants 20c. each, \$2.00 per dozen. 2-year-old Plants 50c. each, \$6.00 per dozen.

**ENCHANTER**.—New Hybrid Tea. Another splendid American introduction, the result of years of diligent work on the part of the originator, Mr. John Cook. Every shoot throws a flower, and the flowers are beautifully made, of remarkable size, and in color clear bright pink, which never fades.

ALL PRICES  
SUBJECT  
TO CHANGE  
WITHOUT  
NOTICE.

**BABY RAMBLER**.—New Dwarf Everblooming Crimson Rambler (**MADAME NOBERT LEVASSEUR**). This is the Rose that has created a commotion in the world which no other Rose has ever approached. It is without question a decided sensational variety, and identical in every way with that wonderful Rose, Crimson Rambler, except it is a dwarf bushy grower and a true everbloomer, being in bloom all the time; flowers in large clusters; color brightest crimson. It grows to a height of 18 inches and hides the plant with its flowers.

Price 1-year-old Plants 30c. each, \$3.00 per dozen.



Price 1-year-old plants 30c. each,  
\$3.00 per dozen. 2-year-old plants  
65c. each, \$7.50 per dozen.

**CARDINAL**.—New Hybrid Tea. One of the really great new Roses. A strong, robust grower; large massive crimson flowers, deliciously fragrant, full and double to the center. Extremely free flowering and of easy culture. Price 1-year-old plants 30c. each, \$3.00 per dozen; 2-year-old plants 65c. each, \$7.50 per dozen.



## HARDY CLIMBING ROSES.

Six months old, each, 15c.; doz. \$1.25; Two-year-old, each, 50c.; doz. \$5.00. By Express not prepaid.

**WHITE MICROPHILLA, OR MAGNOLIA ROSE**.—Rich, creamy white; the most deliciously fragrant of all Roses; has strong resemblance to the odor of a magnolia; hence its name. Strong, rapid grower; leaves small; very hardy; constant bloomer. This is not a new Rose, but the old-time climber that was so extensively grown in ante-bellum days, and now coming to the front as one of the great climbers.

**REINE MARIE HENRIETTE**.—Cherry-red; a beautiful, lively shade. Buds long and pointed.

**CRIMSON RAMBLER**.—Magnificent pyramidal clusters of rich crimson Roses. Every cluster a perfect bouquet of Roses in itself. Grows ten to twenty feet in a year.

**CLIMBING CLOTHILDE SOUPERT**.—This grand new Rose is of the climbing form of the well-known and popular rose Clothilde Souperf. It is a vigorous grower, forming canes 15 feet in one season, and covered with large clusters of flowers all summer. Flowers are large, double and a beautiful shell pink, forming the buds in clusters. Perfectly hardy, and will stand any kind of weather. We cheerfully recommend it as the best of all the hardy everblooming Roses.

**CLIMBING METEOR**.—Blooms almost constantly. Flowers large and of that rich, dark, velvety crimson color seen only in the Jacqueminot. Strong well-rooted plants.

## NURSERY DEPARTMENT.

## FRUITS.

## Summer Apples.

**YELLOW TRANSPARENT.**—Ripens among the earliest. July.  
35c. each. \$4.00 per dozen. \$18.00 per 100.

**STAR.**—One of the best. July.  
35c. each. \$4.00 per dozen. \$18.00 per 100.

## Autumn Apples.

**GRAVENSTEIN.**—August.  
50c. each. \$4.80 per dozen. \$18.00 per 100.

**OLDENBURG** (Duchess of Oldenburg).—August.  
50c. each. \$4.80 per dozen. \$18.00 per 100.

## Winter Apples.

**LANKFORD'S SEEDLING.**—A popular sort for late winter use.  
50c. each. \$4.80 per dozen. \$18.00 per 100.

**YORK IMPERIAL**, or **JOHNSON'S FINE WINTER.**  
50c. each. \$4.80 per dozen. \$18.00 per 100.

**STAYMAN'S WINESAP.**—A great apple.  
50c. each. \$4.80 per dozen. \$18.00 per 100.

## Additional Varieties.

"S" means Summer. "A" Autumn. "W" Winter.  
**KED ASTRACHAN**, S. Carolina Red June, S. Tetovsky, S. Fall Pippin, A. Smoke-house, A. Ben Davis, W. Bentley's Sweet, W. Berry Red, W. Fallawater, A. Winesap, W. Nansemond Beauty, W. Rome Beauty, W.

25c. each. \$2.50 per dozen. \$15.00 per 100.

**CRAB APPLES.**—50c. each. \$5.00 per dozen.

## Pears.

**KOONCE.**—Medium to large, very handsome; surface yellow, one side covered with a bright carmine, containing brown dots; quality very good, spicy, juicy and sweet. The Koonce is a vigorous grower, free from blight, productive, and an annual bearer. 50c. each. Three for \$1.25.

**VERMONT BEAUTY.**—In color it is a rich yellow, with a beautiful bright carmine cheek. The fruit is of medium size, and the flesh is of the finest quality, being rich, juicy and aromatic. 50c. each. Three for \$1.25.

**GARBER.**—September and October. Said to be blight-proof.  
40c. each. \$4.00 per dozen. \$25.00 per 100.

**KIEFFER.**—The old, well-known, reliable and paying variety.  
40c. each. \$4.00 per dozen. \$20.00 per 100.

**FLEMISH BEAUTY, BARTLETT, SECKEL.**  
35c. each. \$4.00 per dozen. \$25.00 per 100.

## Dwarf Pears.

**PRICES ON DWARF PEARS, 2 and 3 Years, First Class:**  
35c. each. \$3.50 per dozen. \$20.00 per 100.

The following varieties succeed well as dwarfs:  
**Angouleme, Anjou, Lawrence, Seckel, Manning's Elizabeth.**

## Peaches.

**CARMEN.**—Hardy, rot-proof. Ripens with Early Rivers; almost as large as Elberta. Pale yellow skin; flesh white. Melting, juicy. Ripens ahead of Mountain Rose.

35c. each. \$3.50 per dozen.

**ELBERTA.**—Needs no description.  
25c. each. \$3.00 per dozen.

**ITALIAN DWARF.**—Very singular tree. Begins bearing when 12 to 15 inches high and seldom exceeds 3 or 4 feet. Fine for small yards. White; free-stone. 25c. each. \$3.00 per dozen.

**GOLDEN DWARF.**—Seldom grows over 4 to 5 feet. Very hardy; cling. Excellent eater. Fine for city yards.  
25c. each. \$3.00 per dozen.

Alexander, Louise, Yellow St. John, Mountain Rose, Early Silver, Crawford Early, Wheatland, Crawford Late, Chairs Choice, Family Favorite, Chinese Cling, Old Mixon, Reeve's Favorite, Christiana, Smock Free, Globe, Ringgold Cling.  
18c. each. \$1.75 per dozen. \$12.00 per 100.

## Japanese or Ornamental Plums.

**HALE.**—Most vigorous tree of all the Japans. Fruit large; bright orange, mottled with cherry red. Superb in quality. Ripens middle of September. Price, 60c. Three for \$1.75.

**WILLARD.**—Earliest of all Japan Plums, and hence very valuable for market. 50c. each. Three for \$1.25.

**WICKSON.**—Fit small; flesh tender, sweet and delicious.  
50c. each or three for \$1.25.

Season just following the Burbank Plum.  
Will sell one of each of above or the three in one order for \$1.25.

**BOTAN, OR ABUNDANCE.**—First of August.

**BURBANK.**—September 1st.

The two above-named varieties, 40c. each. Three for \$1.00.

Six for \$2.00. \$3.50 per dozen.

**ADDITIONAL FRENCH AND AMERICAN VARIETIES,** including Shropshire Damson, 35c. each. \$3.00 per dozen.

## Cherries.

**HEART.**—Black Tartarian, Gov. Wood, Napoleon Bigareau, Florence, Mercer.

**DUKE AND MORELLO.**—Dye House, Belle Magnifique, Early Richmond, Montmorency.

Price, 50c. each. \$5.00 per dozen.

## Apricots.

**HARRIS.**—Very hardy; blooms late; sure bearer; fine golden yellow. 40c. each. \$4.00 per dozen.

**RUSSIAN VARIETIES AND NECTARINES.**  
50c. each. \$5.00 per dozen.

## Nut-Bearing Trees.

Spanish Chestnut, English Walnut, Paper-Shell Pecan, Filberts, Shell Barks, Hard and Soft-Shell Almonds.

Price, 30c. each. \$3.00 per dozen.

**JAPAN CHESTNUT.**—\$1.00 each. \$10.00 per dozen.

## Grapes.

The following list contains the best-known sorts of hardy American varieties:

**OHIO, BLACK.**—One of the very best. Two years old.

25c. each. \$2.50 per dozen.

Brighton, Red. Concord, Black. Delaware, Red. Martha, White. Worden, Black. Two years old.

20c. each. Twelve for \$2.25.

Moore's Early, Black. Niagara, White. Pocklington, White. Vergennes, Red. 20c. each. \$2.25 per dozen.

Campbell's Early.—35c. each. \$4.00 per dozen.

## Select Quinces.

**CHAMPION** (3 to 4 feet).—50c. each. \$5.00 per dozen.

**CHAMPION** (2 to 3 feet).—30c. each. \$3.00 per dozen.

**MEECH PROLIFIC** (3 to 4 feet).—50c. each. \$5.00 per dozen.

**MEECH PROLIFIC** (2 to 3 feet).—30c. each. \$3.00 per dozen.

## ORNAMENTALS.

**SILVER MAPLES** (9 to 10 feet).—60c. each. \$7.00 per doz.

**SILVER MAPLES** (10 to 12 feet).—80c. each. \$9.00 per doz.

**SUGAR MAPLES** (8 to 9 feet).—70c. each. \$8.00 per doz.

**SUGAR MAPLES** (10 to 12 feet).—90c. each. \$10.00 per doz.

**NORWAY MAPLES** (8 to 9 feet).—70c. each. \$8.00 per doz.

**NORWAY SPRUCE** (2 to 2½ ft.).—60c. each. \$7.00 per doz.

**BALSAM FIR** (2 to 2½ ft.).—75c. each. \$8.00 per doz.

**MAGNOLIA, GRAND** (2 to 3 feet).—\$1.25 each.

Prices on other varieties on application.

## Shrubby.

**JAPAN MAPLES.**—Mostly dwarf habit; several kinds weeping and cut-leaved, with brightly-colored foliage, red, purple, etc. These are indeed remarkable for beauty, and wherever planted give perfect satisfaction. \$1.50 each.

**DEUTZIA GRACILIS.**—50c. each.

**DEUTZIA CRENATA.**—50c. each.

**LILAC** (White and Blue).—75c. each.

**SPIREA, RIEVESIL.**—50c. each.

**SPIREA, BUMALDO.**—50c. each.

**SPIREA, CALOSA ALBA.**—50c. each.

**HYDRANGEA, PANICULATA GRAND.**—50c. each.

**CRAPE MYRTLE.**—75c. each.

## Vines.

**AKEBIA QUINATA.**—35c. each.

**AMPELOPSIS VEITCHII.**—35c. each.

**ENGLISH IVY.**—40c. each.

**WISTARIA PURPURIA.**—50c. each.

**WISTARIA ALBA.**—50c. each.

**CLEMATIS** (Large Flowering).—60c. each.

**CLEMATIS** (Small Flowering).—60c. each.

## Hedge Plants.

**CALIFORNIA PRIVET.**

One Year—\$4.00 per 100. \$35.00 per 1000.

Two Years—\$5.00 per 100. \$40.00 per 1000.

**OSAGE ORANGE:**

One Year—75c. per 100. \$6.00 per 1000.

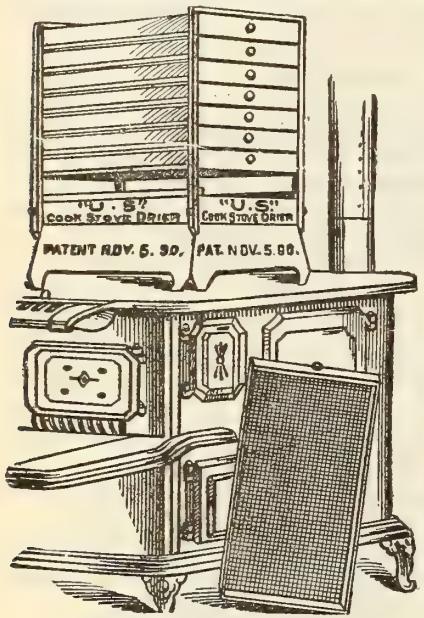
**AMERICAN ARBORETUM:**

12 to 18 Inches—25c. each. \$12.50 per 100.

2 to 3 Feet—75c. each. \$22.50 per 100.

## Cook Stove Fruit Drier.

IT is a little gold mine. No labor you can perform for cash returns, pays as well as that of converting wasted fruits into evaporated stock. These products are among the highest-priced luxuries in food products. Evaporated peaches, cherries and raspberries, 20 to 25 cents per pound; apples, pears, blackberries, etc., 10 to 15 cents; all salable to or may be exchanged with your grocer for anything he sells. **Recall the Waste of Fresh Fruits** on the farm or town lot for Seasons Past. Price \$5.



**PRICE** Any of the above varieties, strong, healthy layer plants, 25c. per doz., 75c. per 100; \$4.00 per 1000. Ready October 15.

Pot-Grown plants will be ready for delivery after September 15. Price per doz., 75c., per 100 \$4.00.

## CURRANTS.

### CHEERY.

Per half-dozen.....	\$0.65
Per dozen.....	1.25
Per 100 (by express).....	6.00

### FAY'S PROLIFIC.

Strong grower, wonderfully productive, and comes to bearing young; fruit large, bright red and good quality. Per half-dozen..... \$0.75  
Per dozen (by express)..... 1.25

### WHITE GRAPE.

Per half-dozen.....	\$0.65
Per dozen.....	1.25
Per 100 (by express).....	8.00

## Japan Wineberries.

This fruit is but little known, but should be in every garden. It is wonderfully productive.

Per dozen (by express)..... \$2.00

## STRAWBERRY PLANTS.

Varieties Marked "P" Should Have Another Perfect Flowering Sort Near Them.

**WE** offer a nice stock of Strawberry Plants of all the leading varieties, and at low prices, considering the quality of the stock. We can supply them at short notice, freshly dug and shipped direct from the nursery.

**JESSIE.**—Mid-season; good size and productive.

**NICK OHMER.**—Mid-season. Fruit large, glossy red, of excellent flavor.

**BEDERWOOD.**—Early and of medium size.

**GLEN MARY (New).**—A very large variety; larger than Sharpless or any other berry.

**CLYDE.**—Fruit large, firm and of light scarlet color.

**EXCELSIOR.**—A new acquisition; large, late, very prolific; splendid for canning and shipping.

**BRANDYWINE.**—Very late; productive; strong grower.

**TENNESSEE PROLIFIC.**—Large, sweet, firm.

**KENTUCKY.**—Medium to late.

**GANDY.**—Late. Fine for canning.

**MICHEL'S EARLY.**—Very early.

**BUBACH (P).**—Medium to late.

**TUBBS.**—Very early.

**SHARPLESS.**—Old reliable.

**WILSON.**—Old standard sort. Medium, early.

**CUMBERLAND.**—Medium, very large, juicy, of good flavor. Productive.

**CRIMSON CLUSTER.**—Late. One of the finest yet introduced.

**HOFFMAN.**—Medium size, firm and good quality and productive.

**JOHNSON'S EARLY.**—One of the finest early berries grown. Do not let it get too thick.

**ZEITER'S EARLY.**—For an extra early berry this is best of all. Good shipper. Very productive for so early a berry. Ahead of Michel's in size and productiveness.

### WILSON, JR.

—Very early.

## RASPBERRIES.



### KANSAS (Black Cap).

**T**HE fruit is handsome, firm and of fine quality. Its canes are of strong growth, entirely hardy and prolific, with tough, healthy, clean foliage. Its season is about second early—later than Souhegan, but earlier than Gregg. 65c. per dozen; \$3.00 per 100.

**MILLER RED.**—Fruit size of Cuthbert; bright red; does not fade; core very small; ripens very early; heavy bearer; best shipper. 65c. per dozen; \$3.00 per 100.

**MUNGER.**—Resembles Gregg, but much finer. One of the best of the black caps. Perfectly hardy. 65c. per dozen; \$3.00 per 100.

**GOLDEN QUEEN, CUTHBERT, OHIO AND SOUHEGAN.**—65c. per dozen. \$3.00 per 100.

## Blackberries.

**ELDORADO.**—Berries very large; jet black; sweet, melting; no hard core; splendid keeper and shipper. 75c. per dozen; \$3.50 per 100.

**ERIE.**—Early.

### EARLY HARVEST.

**LUCRETIA (Dewberry).**—As early as Early Harvest and as large as Wilson. Plant is entirely hardy, healthy, strong grower and very productive.

Any of the above, 75c. per dozen. \$4.00 per 100. By express.

## GOOSEBERRIES.

### DOWNING.

### Two-Year-Old.

Per half-dozen.....	\$0.75
Per dozen.....	1.50
Per 100 (by express).....	10.00

### HOUGHTON'S SEEDLING.

Per half-dozen.....	\$0.65
Per dozen.....	1.25
Per 100 (by express).....	8.00

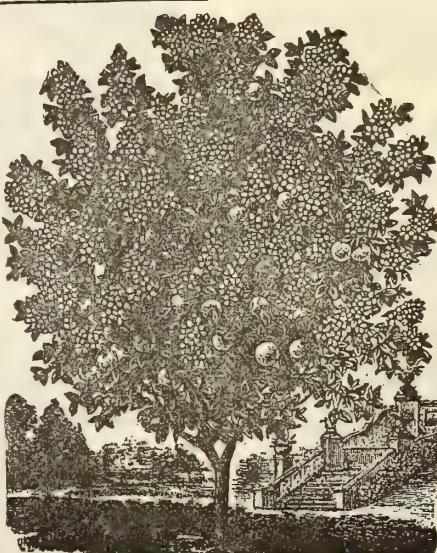
### JAPAN HARDY ORANGE.

(Citrus Trifoliata.)

New Hardy Orange. It blooms and fruits profusely in the parks of Philadelphia and New York. To have a fruiting Orange tree in your garden is certainly something to be proud of; its large, white, sweet-scented flowers are produced in the greatest abundance before the fruit appears. Well adapted for hedges, making a close, compact growth that nothing can penetrate. Fruit small, bright orange red in color, has a peculiar flavor, fine for preserving.

Three Years Old, By Freight or Express.

Each.....	\$0.40
Per dozen.....	4.00
Per 100.....	16.00



ORANGE (Hardy).

# VALUABLE INFORMATION

## HOW AND WHEN TO SPRAY

### HOW TO SPRAY.

Intelligence in application and good judgment are the two great principles that insure success in spraying.

Professor Smith, Entomologist of New Jersey, says in one of his reports that he made a very interesting observation in an application of KIL-o-SCALE made by a local nurseryman. We quote him as follows: "It proved to be an excellent illustration of how spraying is often done, and I advised the owner at once that he must not look for satisfactory results. The object seemed to be to get over the greatest number of

trees in the least possible time, and whenever the spraying rod had been over as many movements as might reasonably be required for a covering, the work was considered finished. Such work is bound to be unsuccessful, no matter what the material applied, and it is regrettably concluded that much of the work done is of this same general character."

In spraying for San Jose scale both fall and spring applications are very advisable, but in cases where it is impossible to do it twice, then the spring of the year is preferable. The advantage in spraying twice lies in the fact that the scale that are missed in the first spraying can be killed in the second.

#### BORDEAUX MIXTURE.

Copper sulphate .....	6 pounds.
Quicklime .....	4 pounds.
Water .....	40-50 gallons.

Dissolve the copper sulphate by putting in a bag of coarse cloth and hanging this in a vessel holding at least 4 gallons, so that it is just covered by the water. Use an earthen or wooden vessel. Shake the lime in an equal amount of water. Then mix the two, and add enough water to make 40 gallons. It is then ready for immediate use, but will keep indefinitely. If the mixture is to be used on peach foliage, it is advisable to use an extra pound of lime to the above formula. When applied to such plants as carnations or cabbages, it will adhere better if about a pound of hard soap be dissolved in hot water and added to the mixture. For rots, molds, mildews and all fungous diseases.

#### COPPER SULPHATE SOLUTION.

Copper Sulphate .....	1 pound.
Water .....	15 gallons

Dissolve the copper sulphate in the water, when it is ready for use. This should never be applied to foliage, but must be

used before the buds break. For peaches and nectarines, use 25 gallons of water. For fungous diseases.

#### AMMONIACAL COPPER CARBONATE.

Copper Carbonate .....	1 ounce.
Ammonia enough to dissolve the copper.	

Water .....

9 gallons.

The copper carbonate is best dissolved in large bottles, where it will keep indefinitely, and it should be diluted with water as required. For the same purpose as Bordeaux Mixture.

#### Spray with KIL-o-SCALE.

#### KEROSENE EMULSION.

Hard Soap .....	1/2 pound.
Boiling Water .....	1 gallon.
Kerosene .....	2 gallons.

Dissolve the soap in water, add the kerosene, and churn with a pump for 5 to 10 minutes. Dilute 10 to 25 times before applying. Use strong emulsion for all scale insects. For insects which suck, as plant lice, mealy bugs, red spider, thrips, bark lice, or scale. Cabbage worms, currant worms and all insects which have soft bodies, can also be successfully treated.

PLANT.	FIRST APPLICATION.	SECOND APPLICATION.	THIRD APPLICATION.	FOURTH APPLICATION.	FIFTH APPLICATION.
Apple—(Canker worm, codling moth, bud moth, scab.)	Spray before buds start, using copper sulphate solution.	After the blossoms have formed, but before they open, Bordeaux and Paris green.*	Within a week after blossoms have fallen, Bordeaux and Paris green.	10 to 14 days later, repeat.	10 to 14 days later, Bordeaux or weak copper sulphate.
Bean (Anthracnose.)	When blossoms appear, spray with Bordeaux.	10 days later, repeat.	10 to 14 days later, weak copper sulphate solution.	Repeat last, if necessary.	Repeat if necessary.
Cabbage—(Worms, aphids.)	When worms first appear, kerosene emulsion, or Paris green.	If worms or aphides are present, repeat if plants are not heading, using emulsion for aphids.	If aphides persist or if worms reappear, use kerosene emulsion, if plants are not heading.	After heads form, use salt-potassium for worms, a teaspoonful to a gallon of water; emulsion for aphides.	Repeat if necessary.
Carnation—(Rust and other fungous diseases.)	When planted out, dip in Bordeaux.	7 to 12 days later, spray plants with Bordeaux.	Repeat at intervals of a week or ten days until blossoms open.	While in bloom, spray every week with the dilute copper sulphate solution.	
Cherry—(Rot, aphid, curculio and slug.)	Before buds start, use copper sulphate solution. For aphid, kerosene emulsion.	When fruit has set, Bordeaux and Paris green.*	10 to 12 days later, if signs of rots appear, repeat.	10 to 12 days later, copper sulphate solution, WEAK.	
Currant—(Worms, mildew.)	As soon as worms are seen, Paris green.	If they reappear, repeat, adding Bordeaux for mildew.*	If worms still trouble, pyrethrum or hellebore.†		
Gooseberry—(Mildew, worms.)	As leaves open, Bordeaux and Paris green.	In 10 to 14 days, repeat with both.	10 to 14 days later, sulphide of potassium on English varieties.	10 to 14 days later, repeat if necessary.	If mildew persists after crop is gathered, Bordeaux.
Grape—(Flea-beetle, fungous diseases.)	Before buds burst, copper sulphate solution and Paris green.	When first leaves are half grown, Bordeaux and Paris green.	As soon as fruit has set, repeat.*	10 to 14 days later, Bordeaux mixture, if disease is present.	If necessary, very weak copper sulphate solution.
Nursery Stock—(Fungous diseases.)	When buds burst, Bordeaux.	Repeat at intervals.	Of 10 to 14 days.		
Peach, Apricot—(Leaf-curl, curculio, mildew and rot.)	Before bud-swell, copper sulphate solution.	As soon as fruit has set, Bordeaux and Paris green.*	10 to 12 days later, repeat.	10 to 12 days later, repeat.	If rot persists, use very weak copper sulphate solution every 5 to 7 days.†
Pear—(Leaf-blight, scab, psylla and codling moth.)	Before buds start, copper sulphate solution.	Within a week after blossoms fall, Bordeaux and Paris green.	10 to 12 days later, repeat.	10 to 16 days later, Bordeaux.	10 to 16 days later, Bordeaux.†
Plum—(Black knot, rot and all fungous diseases, curculio.)	As buds start, copper sulphate solution. Cut out knot and burn.	When fruit has set, Bordeaux and Paris green.	10 to 12 days later, repeat.	10 to 20 days later, Bordeaux.	Weak copper sulphate solution, as is necessary.
Potato—(Beetles, scab, blight.)	For scab soak seed in corrosive sublimate solution (2 oz. in 16 gallons of water for 90 minutes.)	When beetles or their larvae appear, Paris green (1 pound to 100 pounds of plaster.)	Repeat whenever necessary.	When blight of the leaves is accompanied by rot of the tubers, Bordeaux.	Repeat if necessary.
Quince—(Leaf and fruit spot, rot.)	Before buds start, copper sulphate solution.	When fruit has set, Bordeaux and Paris green.*	10 to 12 days later, repeat.	10 to 20 days later, Bordeaux.	Bordeaux or copper sulphate sol., as is necessary.
Raspberry, Blackberry—(Anthracnose, rust.)	Cut out badly diseased canes. Spray with copper sulphate solution before growth starts.	When new canes are one foot high spray with Bordeaux mixture.	10 to 14 days later, weak copper sulphate solution.		
Rose—(Mildew, black spot, red spider, aphids.)	Mildew: Keep heating pipes painted with equal parts lime and sulphur mixed with water to a paste.	Black spots: Spray plants once a week with weak copper sulphate.	Red spider: Kerosene emulsion to under side of foliage.		
Strawberry—(Rust.)	Just before blossoms open, Bordeaux and Paris green.	When fruit has set, Bordeaux or WEAK copper sulphate solution.	As soon as berries are harvested, Bordeaux (if to be kept longer.)		
Tomato—(Rot and blight, worms.)	When first fruits have set, Bordeaux.	If disease appears, repeat* or use weak copper sulphate solution.	If necessary, spray with weak copper sulphate solution.		
Violet—(Blight, red spider.)	When blight is first seen, weak copper sulphate. Kerosene emulsion for insects.	Repeat at intervals of 10 to 20 days, as necessary for blight.	NOTE.—Use Kerosene emulsion, very weak.		

**EXPLANATION.**—Whenever an Asterisk (\*) is used it cautions against spraying with poisons while the plants are in blossoms. A Dagger (†) indicates that there is danger of making an application within three weeks of the time the fruit is to be used as food.

# Horticultural Tools and Supplies

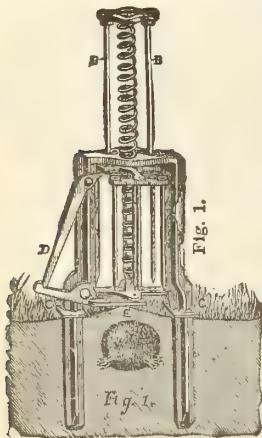


Fig. 1.

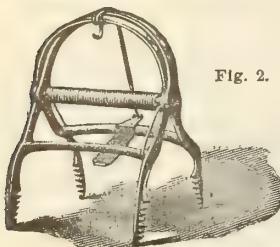


Fig. 2.



Fig. 6.

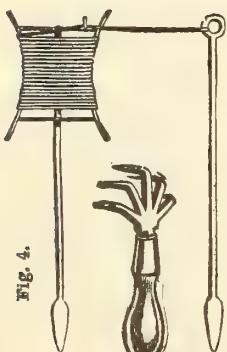


Fig. 4.



Fig. 5.



Fig. 7.

**Best Asparagus Buncher \$1.50.**

**Asparagus Knives...30c.  
By m'l 40c**

## L. M. OLMLSTEAD'S IMPROVED RELIABLE MOLE TRAP (Fig. 1.)

**No Cheap Trap So Good. No Good Trap So Cheap.**  
Springs are furnished to operate the trap. The spring can be readily attached and detached.

This trap is constructed entirely of steel and iron. Each trap is packed in a strong paper box, one dozen in a case. Price \$1.50.

## OUT OF SIGHT MOLE TRAP (Fig. 2.)

Considered to be one of the best and cheapest Mole Traps on the market. Especially valuable for hotbeds and frames on account of the convenient size. Price \$1.00.

## THE MODEL MOLE TRAP.

This, while possessing all the good qualities of other traps, is especially adapted for setting under glass. Price \$1.75.

## G. & T. MOLE TRAP.

This is a good Mole Trap for the money. Price \$1.00.

## THE LITTLE GIANT MOLE TRAP.

Self-setting by pressing down on lever. Very convenient feature found on no other trap. Made from best spring steel, thoroughly galvanized. Simple and durable in its construction. Price 75c.

## GARDEN REELS (Fig. 4.)

Small size..... 60c. Large size..... 75c.

## EXCELSIOR WEEDER (Fig. 5.)

Price..... 10c. Mailed..... 15c.

## LARGE HAND WEEDER (Fig. 6.)

Malleable Iron Hand Weeder..... 15c.  
Solid Steel Hand Weeder..... 25c.

By mail, 10c. extra.

## DIBBERS.

For transferring plants. By far the best thing for the purpose ever introduced.

Fig. 8.—Right-angle shape, steel-polished, wood handle—40c.

## EDGING KNIVES (Fig. 9.)

9 inch, American..... \$0.75 9 inch, Eng., black..... \$1.35

8 inch, Eng., black..... 1.25 10 inch, Eng., black..... 1.50

## SCUFFLE HOES (Fig. 10.)

4 inches..... 50c. 8 inches..... 70c.

6 inches..... 60c. 10 inches..... 80c.

## PLANTAIN TROWEL (Fig. 14.)

No. 2, 5-inch blade..... 15c. No. 1, 8-inch blade..... 25c.

## GARDEN TROWEL (Fig. 11.)

Sixteen gauge tool steel, 6-inch blade, a socket handle that will not come out in dry weather. Price 15c.

## GARDEN TROWELS (Fig. 12.)

Each. Best forged English steel, socket handle, strong and durable, 6-inch..... 40c.

American, Florist..... 20c.

" 6-inch bright steel blade, plain handle..... 5c.

" 6-inch tinned steel blade, enameled handle..... 10c.

## EUREKA HAND WEEDER (Fig. 13.)

**A Very Handy and Useful Little Instrument.**

Short handle..... 25c. Long handle..... 35c.

## THERMOMETERS (Fig. 15.)

8-inch tin, japanned, No. 20..... \$0.15

10-inch, distance reading, No. 6..... .25

8-inch, cabinet, No. 201 H..... .50

10-inch, tin case, best quality, No. 31..... .60

Porcelain scale, red spirit, No. 251, 8-inch..... 1.00

Porcelain scale, 10-inch, red spirit, No. 251..... 1.25

12-inch, tobacco curing, No. 0..... .35

Registering (sixes), No. 650, 8 inch..... 2.50

Mushroom bed, good grade..... 1.00

Mushroom bed, best..... 1.50

Dairy or hotbed glass float..... .25

Glass floating, large..... .50

8-inch standard flange, stands boiling water..... .50

Milk Hydrometer, No. 2080..... .40

Milk Hydrometer, No. 2085 (Quevenne)..... .75

Incubator, upright..... .75

Incubator, reclining..... 1.00

Brooder, No. 1307..... .50

## GRASS HOOKS.

American, plain..... 25c.

American, Blue Ribbon..... 40c.

German—No. 0..... 20c.

German—No. 1..... 25c.

German—No. 2..... 35c.

German—No. 3..... 40c.

Best English Grass—No. 2..... 35c.

Best English Grass—No. 3..... 50c.

Best English Hedge or Grass Hooks—No. 4..... 60c.

Best English Hedge or Grass Hooks—No. 5, riveted back..... 75c.

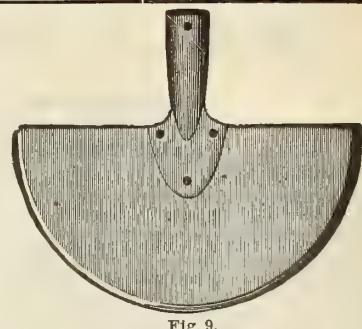


Fig. 9.



Fig. 11.



Fig. 13.



Fig. 12.



Fig. 14.

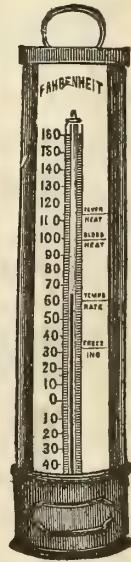


Fig. 15.

# Horticultural Tools and Supplies

CONTINUED.



Fig. 17.



Fig. 18.



Fig. 19.



Fig. 20.

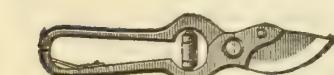


Fig. 21.



Fig. 22.

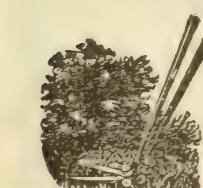


Fig. 23.



Fig. 24.



Fig. 25.

## WATERS' TREE PRUNERS.

Extra knives, 20 cents.

## BORDER SHEARS.—Fig. 18.

## HORSE SHEARS.—Fig. 19.

By mail, add 15c.

## HORSE SCISSORS.

By mail, add 15c.

## PRUNING SAWS.—Fig. 20.

## PRUNING SHEARS.—Fig. 21.

If wanted by mail, add 15c.

## PRUNING KNIVES.—Fig. 22.

## BUDDING KNIVES.

## TELEGRAPH TREE PRUNERS.

## LAWN SHEARS.—Fig. 23.

## GRASS SHEARS.—Fig. 24.

## HORSE OR DOG CLIPPERS.—Fig. 25.

Horse, No. 179, \$1.00. Horse, No. 159, Ball-bearing, \$1.75. Horse, No. 71, Fet Lock, Nickel Plate, \$1.00. Toilet or Fet Lock, Nickel Plate, 90c.

## HEDGE SHEARS.—Fig. 26.

## LOPPING SHEARS.

Fig. 27.

## ASPARAGUS KNIFE.

Fig. 28.

## SHEEP SHEARS.

Fig. 29.



Fig. 26.

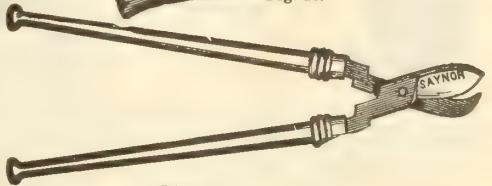


Fig. 27.



Fig. 28.



Fig. 29.

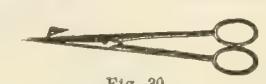


Fig. 30.

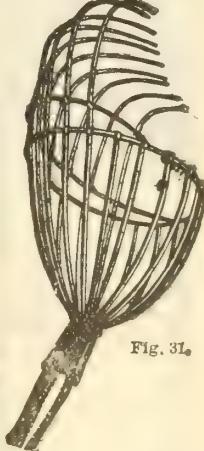


Fig. 31.

## FLOWER AND GRAPE SCISSORS.—Fig. 30.

5 cents extra for postage.

## FRUIT PICKER.—Fig. 31.



Fig. 32.

## SCYTHE STONES.—Fig. 32.

per doz.

No. 5—Mowing Machine (beveled).....10c.

No. 6—Darby Creek.....10c. each, \$1.00 doz.

Cigar Emery.....10c. each, \$1.00 doz.

No. 7—Imported English Talacre.....20c. each.

None genuine unless labeled Sir Pyers  
Mostyn, Talacre Quarries.

## WIRE PLIERS.

Fence Wire Cutters, 6 in. 40c.; 8 in. 50c.; 10 in. 60c.

## FLORIST AND GARDEN SUPPLIES.

PLANT  
SPRINKLERS,

For sprinkling  
cut flowers,  
seedlings,  
plants,  
clothes, etc.

No. 1—Plain top, 12  
ounces.....\$0.90

No. 1—Angle, plain  
top, 12 ounces... .90

No. 2—Plain top, 7  
ounces.....75

PUTTY BULB. ounces.....75

No. 2—Angle, plain top, 7 ounces... .75

No. 3—Plain top, 7 ounces.....75

No. 4—Plain top, 4½ ounces.....60

No. 1—Valvular top, 12 ounces.....90

By mail, 10c. extra.

**PUTTY BULBS—Large Size.**

Price.....90c. By mail.....\$1.00



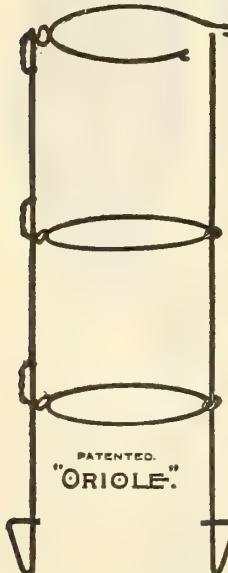
## BRASS GARDEN SYRINGES.

No. A—Barrel 12 in. long, 1 spray and 1 stream  
rose.....\$2.25

No. 12—Barrel 13 in. long, 1 coarse and 1 fine  
spray and 1 stream rose.....\$3.75

No. 2—Two spray roses, and jet, 14½x1½ inches,  
.....\$4.25

No. 10—Barrel 18 in. long, 1 coarse and 1 fine  
spray and 1 stream rose with patent valves  
and elbow joint.....\$6.00

The Oriole  
Carnation Supports

Awarded a Certificate of merit by the Gardeners' Club. It has been pronounced the best on the market. Height, 2 feet. "The Oriole" is constructed of 2 stakes No. 11 Galvanized Wire, and 3 rings of No. 14 Galvanized Wire; very easily erected, and needs only to be stripped from the stakes to pack away. It allows ample opportunity and convenience for cultivation and weeding between each row, and withstands spraying by city water pressure. Any one having stakes can be furnished rings separately.

Dozen.....\$0.60  
100.....3.50  
Special price in  
1000 lots.

## CANE STAKES.

5 to 7 feet long.

Per 100.....\$1.00 Per 1000.....\$6.50

## POT LABELS.

Plain. Painted.  
3½ inch, per 1000.....\$0.55 \$0.75

4 " " .....70 .85

4½ " " .....85 1.00

5 " " .....90 1.15

6 " " .....1.00 1.25

12 inch, per 100.....75c.

Special price in quantities to florists.

MASTICA GLAZING  
MACHINE.

Price, \$1.25.

Mastica.—For glazing greenhouses, sashes, new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold. "Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of relaying the glass.

Half gallon.....\$0.70  
Gallon.....1.25



## BURLAP HOT-BED MATS.

Made of strong burlap, interlined with wool.

Price, 40x76, each.....\$0.75

Price, 76x76, each.....1.20

Special Price in Dozen Lots.

## PLANT BED CLOTH.

A cheap substitute for glass, and will keep out many degrees of frost. Also useful for shading material. Samples mailed on application.

Light grade.....5c. yard.

Piece of about 65 yards.....4½c. yard.

Medium grade.....8½c. yard.

Piece of about 60 yards.....8c. yard.

Heavy grade.....13c. yard.

Piece of about 40 yards.....12½c. yard.

## GRAFTING WAX.

½ lb.....10c. ¼ lb.....20c. 1 lb.....35c.

## SPHAGNUM MOSS.

For packing growing Orchids, Plants, etc.

Per bale.....\$2.50

## STABLE BROOMS.

For Stables, Lawns and Walks.

12-inch Rattan.....45c.

14-inch Rattan.....55c.

12-inch Bass.....50c.

14-inch Bass.....60c.

## RAFFIA.

The best material for tying plants, vines, etc.

Per pound, 20c. 10 pounds, \$1.50.

SILKALINE, spool, 20c.

GALVANIZED HARD STEEL PLANT  
STAKES.

These are a great improvement over the wooden stakes for carnation and rose beds; they are durable, neat and strong.

Length. Per 100. Per 1000.

2½ feet.....\$0.75 \$6.25

3 feet.....90 7.75

3½ feet.....1.10 9.00

4 feet.....1.25 10.00

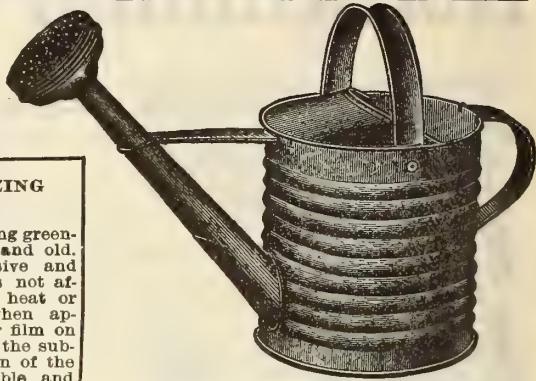
5 feet.....1.50 13.00

## PAINTED TREE LABELS.

3½ inch, notched or pierced.....\$0.80 per 1000

3½ inch, iron wired.....1.00 per 1000

3½ inch, copper wired.....1.25 per 1000



## IRONCLAD WATERING POTS.

With Adjustable Nozzles.

4-quart.....50c.	10-quart.....75c.
6-quart.....60c.	12-quart.....80c.
8-quart.....65c.	16-quart.....90c.
20-quart.....\$1.15.	

Wotherspoon Make.

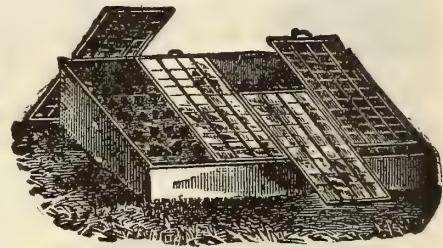
6-quart.....\$1.85	10-quart.....\$2.25
8-quart.....2.00	12-quart.....2.60

TWEMLOW'S OLD ENGLISH GLAZING  
PUTTY.

Semi-Liquid.

16-pound can (1 gallon capacity).....\$1.25	80-pound kits.....6.00
---	------------------------

For bedding glass in sash and filling cracks or seams in roof joints or frames of green houses or hotbeds.



## UNGLAZED HOT-BED SASH.

3x6 feet.....	Price, 85c.
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## PEERLESS GLAZING POINTS.

(Imp. Van Reyper.)

The finest glazing points on the market. The glass cannot slip; they are quickly and easily put in with special pincers; no "rights" or "lefts" to bother with.

Per box of 1000.....60c.

By mail.....75c.

In lots of 5000 (by express), per 1000.....55c.

Pincers, per pair.....50c.

By mail.....60c.

## MARLING.

Furnished in 1, 5, 10, 15 and 20 pound bales.

5-lb. Bales.....12c. per pound.

1-lb. Bales.....15c. per pound.

Special prices in quantities.

## HEAVY OR DAHLIA STAKES.

Each. Per Doz. Per 100.

3 feet.....7c. \$0.75 \$4.85

4 " .....10c. 1.10 6.50

5 " .....11c. 1.25 8.15

## LIGHT PLANT STAKES.

Each. Per Doz. Per 100.

1½ feet.....2c. 17c. \$1.00

2 " .....3c. 28c. 1.70

2½ " .....5c. 39c. 2.40

3 " .....5c. 51c. 3.20



Charles A. Cyphers' Model Incubator.

## MODEL INCUBATORS AND BROODERS Manufactured by Charles A. Cyphers

In one short season the Model Incubator won first rank among practical poultrymen—men who are in the business for a livelihood, not only at home, but in foreign countries. That this should have been done in so short a time proves conclusively the superior merit of the Model Incubator. In the design and construction of the Model Incubator Mr. Cyphers drew from the experience gained by him in the past seven years, during which time he manufactured many thousands of machines, which have gone into many countries and been operated under every climatic condition. While we have not the space here to describe in detail the construction of the Model Incubator, we will state that in its construction the best ideas only are employed, and while Model Incubators may be a little higher in price than some other makes, still the purchaser can rest assured that when he buys the Model Incubator he gets good value for his money, and results obtained with the Model will soon convince the user that in Incubators, more than in almost any other machine, the best is the cheapest. Two features which stand out prominently are the Improved Smokeproof Heater and the Regulator. The new Thermostat is designed with a view to the largest movement compatible with uniformity, and it excels anything of the kind ever before offered the public. Any one interested in the purchase of an Incubator will do well to write to us for special catalogue, describing in detail the construction of the Model Machines. It is mailed free on application and will prove interesting to any poultryman.

### PRICES.

No. 0 Model Incubator holds 60 hen eggs or 48 duck eggs.....	\$14.00
No. 1 Model Incubator holds 120 hen eggs or 100 duck eggs.....	20.00
No. 2 Model Incubator holds 220 hen eggs or 190 duck eggs.....	29.00
No. 3 Model Incubator holds 360 hen eggs or 290 duck eggs.....	37.00

## "MODEL COLONY" BROODER.

An entirely new creation which won the most general approval ever given a brooder. The points of superiority that were particularly commended were its accessibility for cleaning without removing the chicks, the total absence of hot spots and draughts in the nursery and the light and cheerful wholesomeness of both the nursery and exercising compartments. The most satisfactory feature was the report from customers that they had successfully reared practically all the chicks placed in it.

Every precaution has been taken to make this Brooder substantial and durable. The roof is covered with tin. It is well painted and presents an attractive appearance. Size 3x6 feet. Price.....\$12.00

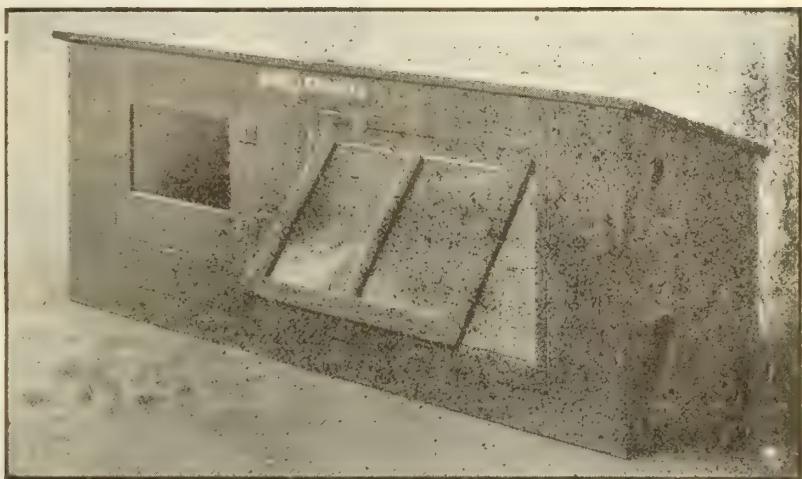
## "THE MODEL" INDOOR BROODER.

Made both single and double. The latter designed to take the place of sectional brooders and are very much more successful. The conditions both in the hover and in the nursery are perfectly normal, and the chicks thrive and grow.

### PRICE.

Model Single Indoor Brooder, size 3x3 feet..... \$8.00  
Model Double Indoor Brooder, size 3x6 feet..... 10.50

Write for Special Catalogue.



Charles A. Cyphers' Model Colony Brooder.

## PRAIRIE STATE INCUBATORS FOR 1907.

In our 1907 Prairie State Diffusion Incubator, we offer the latest proved truths that make our machine more effective than ever.

### POINTS OF SUPERIORITY.

A perfect diffusion incubator without diaphragms, burlap or screens. Absolutely fire-proof and guaranteed to that effect.

An equal distribution of heat in all parts of the egg-chamber.

The relative humidity of the air in the machine approaches near to that found under a hen, thus copying nature so successfully as to secure equal results in hatching.

Economical in operation, simple in construction and certain in results.

Furnished complete at the price quoted, with full directions. So perfect in construction that the heat is regulated automatically to the fraction of a degree.

One style of tray for all eggs, the same machine hatches chicks, ducks, geese or turkeys.

Each incubator has double walls and is carefully packed, thus securing and maintaining the desired heat under the greatest variation of temperature and at a minimum cost. The regulator is our own patent, and so sensitive that the heat in the machine is controlled automatically even to the fraction of a degree.

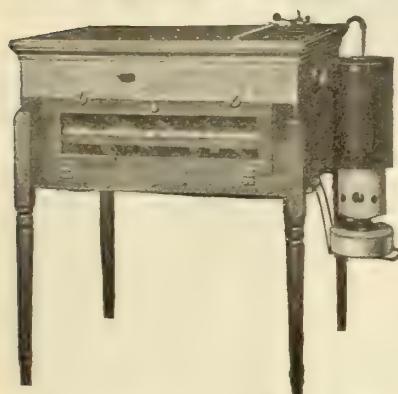
The prices quoted are based on the cost of production, under most advantageous circumstances, and therefore, full value is given to each purchaser.

### PRICES:

No. 1 Junior Incubator, capacity 60 Hen Eggs.....	Price \$ 8.00
No. 2 Junior Incubator, capacity 110 Hen Eggs.....	" 12.00
No. 1 Diffusion Incubator, capacity 150 Hen Eggs.....	" 20.00
No. 2 Diffusion Incubator, capacity { 240 Hen Eggs.....	" 29.00
{ 200 Duck Eggs....	
{ 390 Hen Eggs....	" 35.00
{ 300 Duck Eggs....	

Including all attachments, including egg tester, thermometer, lamp, tray for eggs and regulator. Guaranteed to be free from mechanical defect and to hatch in the most approved manner.

Complete Prairie State Catalogue Free on Request.



No. 1 Prairie State Diffusion Incubator—Capacity 150 Eggs.

Hagerstown, Md., April 2, 1906.  
Prairie State Incubator Co.,

Homer City, Pa.

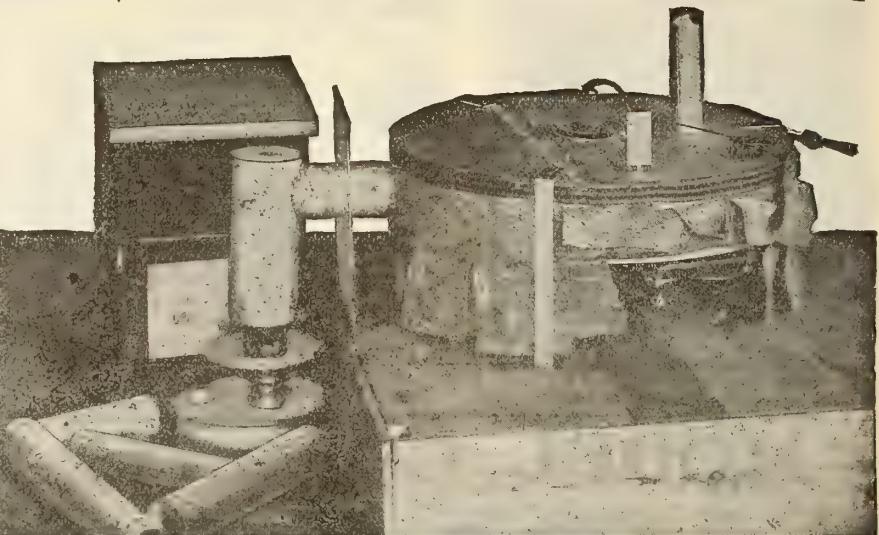
Gentlemen—About one month ago I bought from you a Junior Incubator. We set 60 eggs, tested out 8 eggs, hatched 42 chicks, which I think large Standard Incubators; please quote me prices and send book of information. Yours, EUGENE STODDARD, Breeder and Trainer of Imported Homing Pigeons.

# PRAIRIE STATE UNIVERSAL HOVER.

**A**s the name of this hover implies, it has a large or universal sphere of usefulness. In fact, there is practically no limit to its adaptability. It may be used or attached to any form of outdoor brooder that is two feet or more in height; to any size or form of colony house, mushroom house, small portable building, dry-goods box, shed, coop or organ or piano box.

Where regular colony houses are used the Universal Hover can be attached to one until the chicks have been given a good start and then removed to another for a new brood. In this way it can be utilized to accomplish the work of four or five expensive combination colony brooders. It has proven to be thoroughly practical in actual service, giving perfect satisfaction during coldest weather of winter, changeable conditions of spring and the heat of summer.

Economy is one of its special features, aside from its wide range of adaptability, as will be seen from the fact that only a small No. 2 Sun Hinge Burner is required to furnish all the heat necessary in the coldest weather. In presenting this hover to the poultry raiser we are confident that it will give him more real genuine satisfaction than any device ever put out. It fills that want felt by everyone who raises poultry, for something they can use for this purpose anywhere, any time, and do the work well.

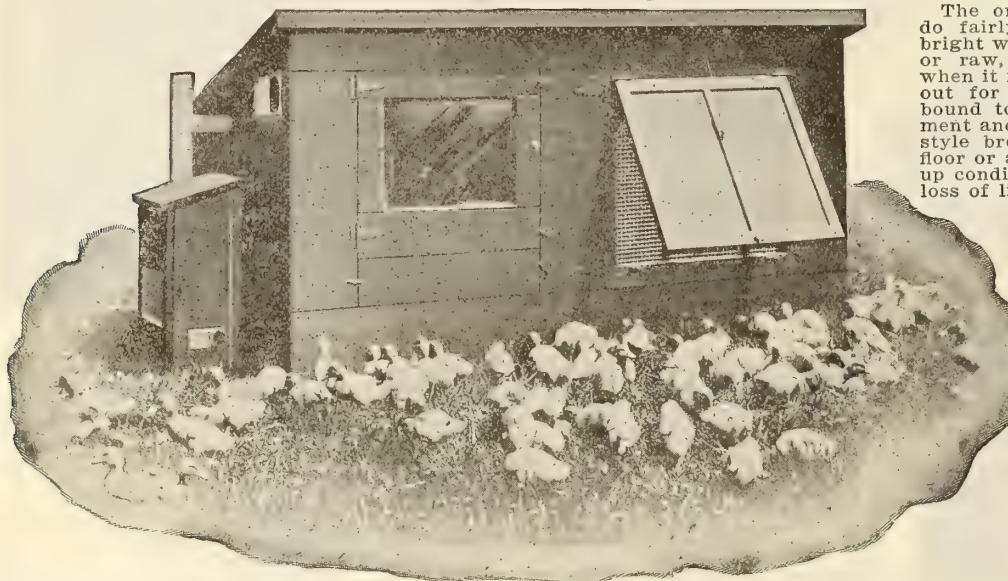


Universal Hover, Lamp Box Removed.

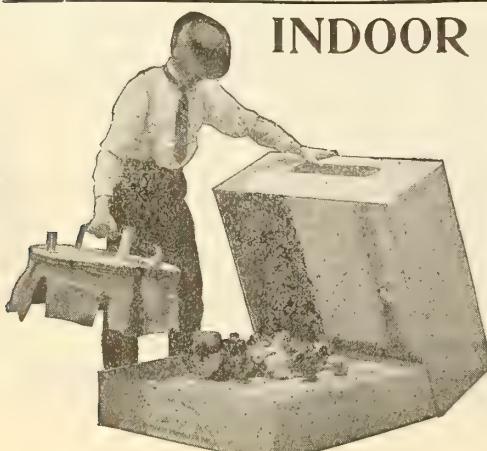
Price of **UNIVERSAL HOVER** (weight, crated, 40 lbs.)—

Complete with Lamp, Lamp Box and Smoke Pipes, without Regulator.....	\$6.00
Same with Regulator.....	7.00
Without Lamp Box and Exit Pipe, with Regulator.....	6.00
Without Lamp Box and Exit Pipe, without Regulator.....	5.00

## No. 1 COLONY BROODER



## INDOOR BROODER No. 5



The Prairie State Indoor Brooder No. 5 is the most convenient brooder ever constructed, being easy to clean and operate. Every part is instantly accessible and removable. The floor of this brooder is three feet square, of tongued and grooved flooring, is perfectly smooth and stands 8 inches from the ground. The space underneath is enclosed, except at one side appears an opening for the lamp. An adjusted screen insures the lamp being placed in correct position.

The removable upper case used on this brooder overcomes the most serious objection to indoor brooders, as with it, it is possible to suit any plan of building, as the chick exit door and the lamp door can be fixed to suit any arrangement of doors or windows, or the convenience of the operator.

Price, \$8.50.  
With Regulator, \$9.50.

The ordinary outdoor brooder will do fairly good work in mild, nice, bright weather, but in the cold, snowy or raw, wet days of early spring, when it is impossible to let the chicks out for weeks at a time, they are bound to die from the close confinement and lack of exercise. In the old style brooders there is not sufficient floor or air space to meet the penned-up conditions, and the result is heavy loss of lives.

The Prairie State Colony Brooder was designed to overcome this serious fault and does it successfully.

### Description.

This brooder house is constructed of tongued and grooved chestnut boards, 1 inch thick. The brooder is 3 feet wide, 6 feet long and 3 feet high in front and 2 feet in rear. The interior is divided by a movable partition into two compartments.

## COLONY BROODER

No. 2.

**DESCRIPTION.**—The sides and floor of this outdoor brooder are made of tongued and grooved chestnut or poplar boards one inch in thickness. The roof of one-half inch boards, with dead air space, and heavy strawboard insulation, all of which is covered with best quality of roofing tin, carefully fastened with nails and covered with several coats of best grade anti-rust paint. The whole roof being hinged, may be easily removed to reach the interior.

### PRICES.

Colony Brooder No. 1, 6 feet by 3 feet .....	\$16.00
Colony Brooder No. 2, 5 feet by 2½ feet .....	12.00
Colony Brooder No. 3, 4 feet by 27 inches .....	9.00
No. 4 Indoor Brooder, without wire enclosure .....	7.00
Same with wire enclosure.....	7.50
No. 5 Indoor Brooder.....	8.50
Same with Regulator.....	9.50

## CORNO CHICK FEED

"THE FEED THAT IS ALL FEED."

ALL GRAIN AND NO GRIT.

This feed is absolutely pure and unadulterated, containing no offal or injurious ingredients, such as rice hulls, ground straw or co<sup>ds</sup>, etc. It will not hurt or scour chicks.

1 lb., 10c.; 5 lbs., 25c.; 100 lb. Sack, \$2.50.

## MASH FEED TO MAKE HENS LAY

This is a complete mash, containing ground grain, alfalfa meal, meat meal and everything necessary for producing a large egg yield. Mix with hot water and it is ready to feed. 5 lbs., 25c.; 25 lbs., 75c.; 100-lb. sacks, \$2.00.

## FATTENING FEED

This feed puts the finishing touches on chickens before sending them to market. It does it in the shortest possible time. We have given special study to grinding this feed into the proper form to give the best results. So confident are we of the value of this feed for fattening purposes that we urge a trial. Convince yourself. 5 lbs., 25c.; per 100 lb. sacks, \$2.25.

## ALFALFA MEAL

This is a green feed the year round. Everyone knows that alfalfa is fast supplanting clover. It is very high in protein, and furnishes to chicks a growing food which at the same time has a medicinal value. Its value as a helpful egg food is unquestioned. 50 lbs., \$1.25; per 100-lb. sack, \$2.00.

## PIGEON FEED

This feed is made to meet the universal demand from fanciers for something especially suitable for pigeons. The mixture contains a great variety of grain and seeds properly balanced under the direction of a successful man who has had years of study and experience with pigeons. 1 lb., 10c.; 5 lbs., 25c.; per 100-lb. sack, \$2.50.

## CHICKEN MANNA, OR HEALTH FOOD

(For Little Chicks.)

This preparation is specially prepared for little chicks when first hatched. This should be the first and only food and continue for 10 or 12 days before feeding anything else; directions for feeding on each package. 1 lb. package, 10c.; by mail, 25c.; 5 lb. package, 40c.; 15 lb. package, \$1.10; 60 lb. box, bulk, \$4.20.

**LEE'S EGG MAKER.**—2½ lb. package, 25c.; 25 lb. pail, \$2.00.

**RUST'S EGG PRODUCER.**—This has given our customers universal satisfaction. It supplies those substances which produce egg growth and development. So moderate in price, it should be used winter and summer. 1 lb. package, 25c.; 2½ lb. package, 50c.; 6 lb. box, \$1.00.

If to be sent by mail, add 10c. per lb. to pay postage.

**PRATT'S POULTRY FOOD** will make hens lay all the year, and is excellent for feeding young chicks. For large fowls mix one ounce with the food for 15 or 20. For 15 or 20 chicks give one-half ounce every other day. 1½ lb. pkg., 25c.; 5 lb. pkg., 60c.; 12 lb. bulk, \$1.25; 25 lb. bulk, \$2.50.



### PRATT'S FOOD FOR HORSES.

7 lbs., 50c.; 12½ lbs., 75c.;  
25 lbs., \$1.50.

### PRATT'S LICE KILLER.

Price 25c. per package.

### CANARY, PIGEON AND PARROT FOOD.

Canada Field Peas, peck, 50c.; bushel, \$1.60. Buckwheat, qt., 10c.; peck, 40c. Hemp Seed, 1 lb., 8c.; 4 lbs., 25c. Canary Seed, 10c. lb. Bird Rape, 8c. lb.

## GALVANIZED IRON GRIT AND SHELL BOXES

Prices:

Small size, 3 compartments,  
50c. each.

## CORNO HEN FEED

### The Balanced Ration for Laying Hens

ALL GRAIN AND NO GRIT.

This feed is formulated from pure, sweet grains. Only those grains are used that are of known value for producing eggs. This is the feed for the poultryman who feeds for profit. 5 lbs., 25c.; 25 lbs., 75c.; 100-lb. sacks, \$2.00.

## CRACKED BONE FOR POULTRY

This article is manufactured from fresh, clean bones, and is perfectly pure and sweet. No chemicals whatever are applied to them in the course of manufacture. Should be fed to the poultry daily, like grain or any other feed. An excellent bone and egg producer, keeping the fowls strong on their legs and largely increasing their laying qualities. Especially valuable for young and grown chicks. We carry two sizes, No. 1 for growing fowls and No. 2 for young chicks. 5 lbs., 25c.; 10 lbs., 40c.; 50 lb. sack, \$1.50; 100 lb. sack, \$2.50.

## BONE MEAL FOR POULTRY

For mixing once a day with soft feed this is unsurpassed. Laying hens and young chickens, whose digestive powers are not strong, are much benefited by this, especially during winter months, or where closely confined in yards. This is exactly the same as the Cracked Bone described above, only it is ground much finer. 5 lbs., 25c.; 10 lbs., 40c.; 50 lbs., \$1.50; 100 lb. sack, \$2.75.

## CRUSHED OYSTER SHELLS

This is a most important article for the poultry yard, and should be liberally supplied at all seasons of the year. It aids digestion as well as supplying lime. Experiments have proved that hens supplied with oyster shells lay more eggs.

We carry two sizes in stock, No. 2 for grown fowls and No. 3 for young chicks. 5 lbs., 10c.; 100 lbs., 75c.; 500 lbs., \$3.25. Special prices in larger quantities.

## GROUND BEEF SCRAPS

Our Ground Beef Scrap is specially prepared from pure beef trimmings and is always uniform. Good meat is very important in a poultry yard if the best results are to be obtained. 5 lbs., 25c.; 10 lbs., 40c.; 50 lbs., \$1.75; 100 lb. sack, \$3.00.

**MEAT MEAL.**—This is a true egg-producing, flesh and bone-forming food, and supplies just what laying hens and growing chicks require. It is not a medicine. It is fed with other foods. Will promote health, growth and vigor. It is the same grade as our Meat Scrap, noted above, only ground finer, and is more suitable for small chicks and mixing with mash food. 5 lbs., 25c.; 10 lbs., 40c.; 50 lbs., \$1.75; 100 lb. sack, \$3.00.

**GRANULATED CHARCOAL.**—A little ground charcoal, mixed with the soft feed in the morning, once or twice a week, is an excellent corrective for the fowls, and keeps them healthy. We carry three sizes, one for grown fowls, one for small chicks, and pulverized. 1 lb., 10c.; 5 lbs., 30c.; 10 lbs., 50c.; 25 lbs., \$1.00; 50 lb. sack, \$1.50; 100 lbs., \$2.50.

**MICA CRYSTAL GRIT (Poultry, Pigeon and Chick Sizes).**—Grit is as essential for poultry as food, as without it they cannot digest the food. Few localities furnish enough sharp grit to satisfy them, and if they have been reared on the land for several years all the suitable grit has been consumed. Poultry will starve to death with full crops for no other reason than they have no teeth with which to grind the food into proper consistency. Grit should be mixed with the food and fed in hoppers or boxes, about one part grit to fifteen or twenty parts of food. 5 lbs., 15c.; 100 lb. sacks, 90c.

We can supply, subject to market prices, the following grains:

**CRACKED WHITE CORN.** 100 lb. bags.

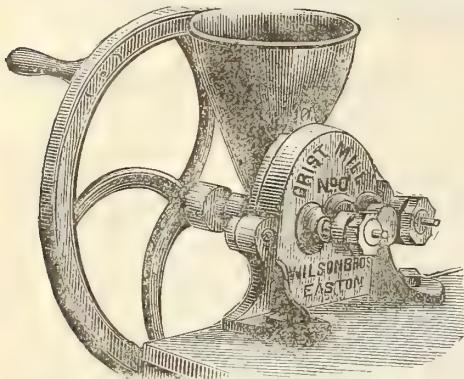
**CRACKED YELLOW CORN.** 100 lb. bags.

**WHEAT.**

**BUCKWHEAT.**

**HULLED OATS.** 100 lb. bags.

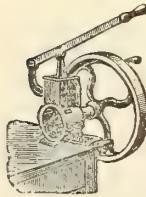
**STEEL-CUT OATS.** 100 lb. bags.



**WILSON  
No. 0  
Family  
Grist Mill**  
**To Bolt to  
Bench or  
Table.**

This mill is especially made for grinding Graham Flour or Cornmeal for table use. It can also be adjusted for cracking the grain if desired. Weight, 30 lbs.

List price, \$5.00. Special retail price, \$4.00. List price with Iron Stand, \$7.00. Special retail price, \$6.00. Weight, 65 lbs.; diameter of hand wheel, 20 inches.



**Wilson's Crown Green  
Bone Mill.**

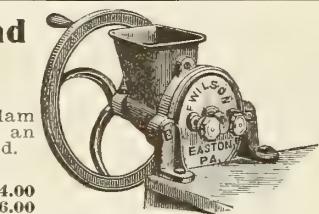
This machine is especially made for cutting green bone with meat on, right from the butcher, or offals of bone and meat from the table. Turns easy, fine and fast.  
With stand, 80 pounds.....\$8.50  
Without stand, 50 pounds.....6.50

**Wilson's Bone and  
Shell Mill.**

No. 1—Grinds oyster or clam shells and dried bones, and is an excellent mill and largely used.

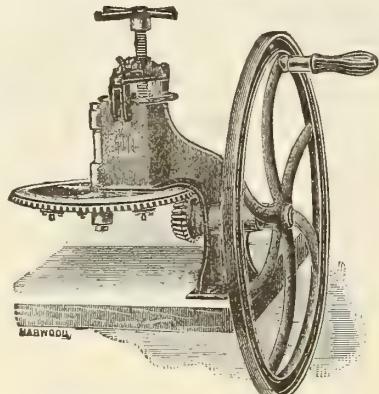
Will also grind corn.

Wgt. without stand, 33 lbs....\$4.00  
Weight, with stand, 64 lbs....6.00



**THE DANDY GREEN  
BONE CUTTER.**

This is one of the simplest and best cutters made. Has automatic feed. The knives are made from the best tool steel and finely tempered. There is one plain and two corrugated knives. Can be changed to cut fine or coarse.



**THE NO. 0 DANDY**  
Suitable for a Flock of  
60 to 75 Chickens.  
No. 0, with long handle,  
weight 35 lbs....\$5.00  
No. 0, with balance wheel,  
weight 65 lbs....\$7.00  
No. 0, with heavy balance  
wheel and disc, with  
three hardened steel  
knives. Capacity from  
150 to 200 chicks, weight  
about 100 lbs., hand or power. \$10.00  
No. 3, for hand or power.  
Capacity by hand power, per  
hour, 25 to 30 pounds.  
By power, capacity for 1,000  
to 1,500 chickens.....18.00

**GEARED DANDY CUTTERS.**  
The geared machines will cut faster, and having four knives will cut just as fine as the others.  
No. 9—Weight 100 lbs. Capacity 100 to 150 fowls....\$12.00  
No. 11—Weight 130 lbs. Capacity 200 to 250 fowls....15.00  
No. 12—with split nut. Weight 130 lbs. Capacity 200  
to 250 fowls....17.00  
No. 13—with balance wheel for hand.....20.00  
No. 13—with balance wheel and pulley for hand or power.....22.00  
No. 13—with tight and loose pulley for power.....25.00  
Weights of No. 13 machines, 180 lbs. Capacity by hand,  
250 fowls; by power, 1,000 fowls.  
Pulley for Nos. 11, 12 and 13, extra.....1.50  
Large Balance Wheel, Nos. 11, 12 and 13.....3.00

## MANN'S BONE CUTTERS

1902 MODEL.

The feed is both automatic and self-governing. Cuts all gristle and meat. Nothing escapes uncut.

**No. 5 C.**—This machine is exactly the same as the No. 5 B, with a crank handle instead of a balance wheel. Capacity not quite equal to 5 B. Weight 35 lbs. \$6.00.

**No. 5 B M.**—This machine is exactly the same as the No. 5 B M, except that it has not the iron stand. The capacity is the same. Weight 60 lbs. \$8.00.

**No. 5 B M.**—Intended for flocks of 15 to 25 hens. Mounted on iron stand. Cylinder 6 inches diameter, 4 inches deep. Cutter plate has 4 knives instead of 3. \$10.40.

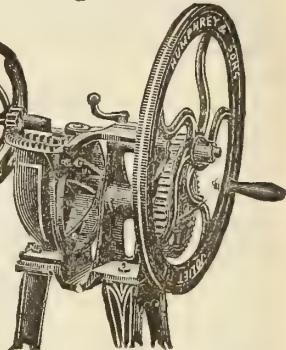
**No. 7.**—Intended for flocks of 40 to 100 hens. Mounted on strong iron stand with large table for box or pan to receive cut bone. Weight 107 lbs. Cylinder 7 1/4 in. in diameter, 5 1/4 in. deep. Capacity 1/2 to 1 lb. per minute. \$12.00.

**No. 11.**—Intended for large flocks of over 100 fowls. Capacity 100 lbs. per hour. Horse-power required, 1 to 1 1/2. Weight 215 lbs. Diameter of pulley 15 inches; 3 1/2-inch face; speed of pulley, 300 to 350 revolutions per minute. Capacity, 100 lbs. and upward per hour. \$26.00.

## Humphrey Green Bone and Vegetable Cutter

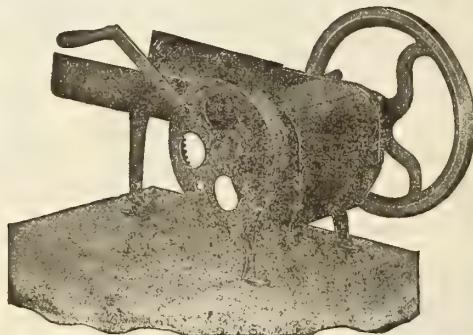
The knives of the Humphrey Cutter act upon the shear principle, producing a granulated cutting, without question the best form in which to feed green bone.

**Capacity.**—The capacity of a bone cutter depends upon the strength and energy of the operator and the nature of the material to be cut. The No. 1 Humphrey is suitable for cutting all the animal food for flocks up to 300 fowls. No. 2 does not appear much larger than No. 1, but is made from a heavier set of patterns and is supplied with a pulley wheel to run by power. No. 2 1/2 is the same machine as No. 2, with the addition of a hand wheel, making it both a hand and power machine. No. 1, Hand Power. \$12.00  
No. 2 1/2, Hand and Power. \$15.00  
No. 2, Semi-Power. 13.50  
No. 6, Direct Power.....22.00



**SILVER'S  
CLOVER  
CUTTER.**

Will cut clover, alfalfa, straw, vegetable tops and similar material, green or dry, into 1/4-inch lengths, which makes it especially adapted to cutting feed for poultry. 8-inch knife. Weight K.D. 12 to 60 lbs. \$7.00.



**BLACK HAWK  
FEED MILL.**

17 LBS.

**Price  
\$3.**  
**Extra  
Grin-  
ders**  
**40c.**  
**Pair.**



GRINDS  
CORN, WHEAT,  
RYE, RICE,  
SPICES, ETC.

MAKES BEST  
GRAHAM FLOUR  
AND MEAL for table use.

Easily set to grind as fine or as coarse as desired.

Just the thing for cracking corn, etc., for POULTRY.

**Old Dominion  
Hand Corn Sheller.  
With Separator.**



Weight, crated, 20 pounds.

Regulating thumb-screw, enabling the sheller to be set for either large or small corn.

It shells clean and without effort.

Good work may also be done on Pop Corn.

There are no breakable parts, as the light pieces are all malleable.

Clamps for fastening to box, with bolts and wrench furnished with each sheller.

Chilled shaft and bearings.

Price.....\$2.00

## Old Dominion Hand Grinding Mills.

With Fly Wheel, \$3.00.

With Crank only, \$2.00.

The capacity ranges from one to two bushels per hour, according to the mill may be set for fine or coarse grinding. The mills may be adjusted to grind corn-meal for table use or only for cracking the grain.

The product is evenly ground, whether the mill be set for coarse or fine work.

They are very simple in construction and not liable to get out of repair.

The shaft is of steel.



### CLIMAX LEG BANDS

Made of spring brass, and so made that the tag acts as a clasp, holding them securely in place. Price per doz., 20c. Per 50, 60c. Per 100, \$1.00.



## DAVIS FOOD AND WATER FOUNTAIN.

The only fountain on the market which can be satisfactorily used for either water or grain, grit, oyster shells, etc.

The only fountain which is adapted to hold any ordinary glass bottle or can as a water retainer. It is hung up and cannot get tipped over or filled with dirt, as do fountains arranged to be set on the floor, and chicks can't get drowned in it.

Can be emptied and refilled in an instant without removing bottle or can from the holder. Merely invert and slip mouth of bottle or can to one side, fill, replace, and turn fountain to upper position again.

Price 25c. We do not furnish the bottle.



## UNION LOCK POULTRY FENCE.

For cut and description, see Fence pages.

	List Price	Retail Price	Retail Price	Per Roll.	Per Roll.	Running Foot.
10 Rod Rolls, 165 ft. 24 in. wide	\$5.60	\$2.80		When cut, 2½c.		
10 Rod Rolls, 165 ft. 36 in. wide	6.90	3.45		When cut, 2¾c.		
10 Rod Rolls, 165 ft. 48 in. wide	8.30	4.15		When cut, 3½c.		
10 Rod Rolls, 165 ft. 60 in. wide	9.60	4.80		When cut, 4c.		
10 Rod Rolls, 165 ft. 72 in. wide	10.80	5.40		When cut, 4½c.		
10 Rod Rolls, 165 ft. 84 in. wide	12.30	6.15		When cut, 5¼c.		

In comparing prices with ordinary poultry netting, remember these bales are 15 feet longer.

## M. M. S. POULTRY FENCING.

For cut and description, see Fence pages.

	List price per roll.	Retail price per roll.	Retail where cut.
10 Rod Rolls, 165 ft. 24 in. wide	\$4.00	\$2.10	1¾c. per run'g ft.
10 Rod Rolls, 165 ft. 30 in. wide	4.70	2.45	2 c. per run'g ft.
10 Rod Rolls, 165 ft. 36 in. wide	5.30	2.80	2¼c. per run'g ft.
10 Rod Rolls, 165 ft. 48 in. wide	6.50	3.42	2¾c. per run'g ft.
10 Rod Rolls, 165 ft. 60 in. wide	7.70	4.05	3¼c. per run'g ft.
10 Rod Rolls, 165 ft. 72 in. wide	8.70	4.57	3½c. per run'g ft.
10 Rod Rolls, 165 ft. 84 in. wide	9.90	5.20	4¼c. per run'g ft.

## DIAMOND MESH POULTRY NETTING.

The wire we offer is all Nos. 19 and 20 double twist, 2-inch mesh, thoroughly galvanized. Sold in bales of 150 running feet.

In.	Sq. feet.	List price per bale.	Ret. pr. per bale.	In.	Sq. feet.	List price per bale.	Ret. pr. per bale.
No. wide. 19	12 150	\$3.75	\$0.85	No. 20	12 150	\$3.37	\$0.75
18	225	5.62	1.26	20	18 225	5.07	1.12
24	300	7.50	1.68	20	24 300	6.75	1.52
36	450	11.25	2.53	20	36 450	10.12	2.27
48	600	15.00	3.38	20	48 600	13.50	3.04
60	750	18.75	4.22	20	60 750	16.87	3.79
72	900	22.50	5.06	20	72 900	20.25	4.56

Retail price 1c. per sq. ft. in less than bale lots. Staples for fastening, 10c. per pound.

## ONE-INCH DIAMOND MESH.

In.	Sq. feet.	List price per bale.	Ret. pr. per bale.	In.	Sq. feet.	List price per bale.	Ret. pr. per bale.
19 24	300	\$19.50	\$4.39	20 24	300	\$16.50	\$3.71
19 36	450	29.25	6.58	20 36	450	24.75	5.57
19 48	600	39.00	8.78	20 48	600	33.00	7.43

Retail price, 2c. per square foot in less than bale lots.

**OLD STYLE GAPE EXTRACTOR.—Price 25c. each.**



### CAPONIZING TOOLS.

You can do your own caponizing easily. Book with full instructions sent free with each set of instruments. Price, in leather case, with instructions, \$2.75.



### METZ'S GAPE WORM EXTRACTOR.

The latest improved method of extracting the Gape Worm. Humane and sure. Directions accompany each instrument. 25c. each.

### MIANN'S SWINGING FEED TRAY.

18 inch.....\$1.00  
27 inch.....1.25

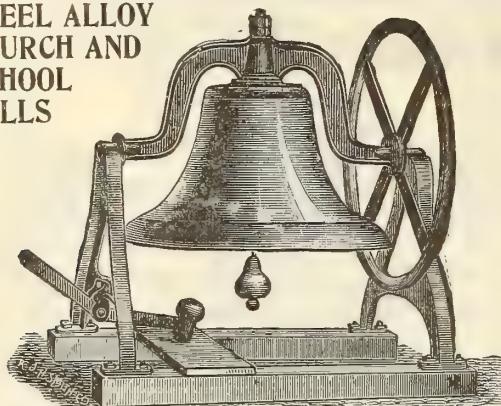


### POULTRY MARKERS.

For marking young and old chickens. Made in two sizes for large or small chicks. Sent by mail on receipt of price, 25c.



STEEL ALLOY  
CHURCH AND  
SCHOOL  
BELLS

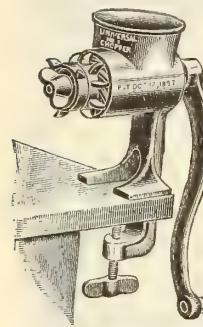


These Bells are cast from an alloy of cast steel and crystal metal, and can be relied on under all circumstances and in all seasons.

Weight (MOUNTED)	List	Retail
No. Diam. Bell Only.	Weight, complete	Price
22.. 22-in. 122 pounds	175 pounds.	\$20.00 \$15.00
24.. 24-in. 153 pounds	225 pounds	25.00 20.00

Tolling hammer not furnished with No. 22. When furnished with No. 24, List, \$5.00; Retail, \$4.00. Prices on above named are for **COMPLETE BELLS**, and include wood sills and iron wheel.

THE UNIVERSAL  
FOOD CHOPPER



Chops all kinds of meat, raw or cooked, and all kinds of fruits and vegetables—in fact, everything that is ordinarily chopped in a chopping bowl—into clean-cut, uniform pieces, fine or coarse, as wanted, without squeezing or mashing, and with great rapidity.  
No. 0, Small Family, three cutters ..... \$1.25

UNIVERSAL MEAT  
CHOPPERS.

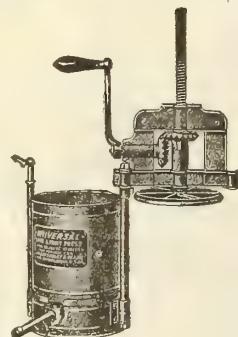
No. 331.....	\$2.25
No. 333 .....	2.50
No. 304.....	3.50

UNIVERSAL STEEL  
LARD and FRUIT  
PRESS and SAUSAGE  
STUFFER.

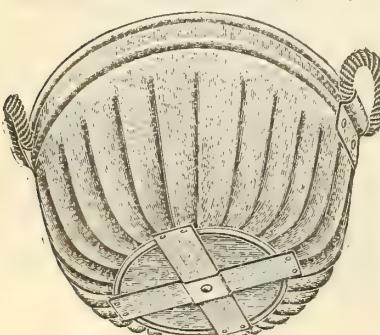
Strong, Unbreakable.

The top can be swung around, permitting the machine to be filled where it stands, and also that the bowl can be handily taken out to be filled, or emptied, or cleaned.

No. 44, four quarts....\$5.50  
No. 88, eight quarts... 7.00



Galvanized Steel  
Baskets.



Crystal Metal  
Farm Bells.

Weight Complete.	Diameter of Bell.
No. 1..... 40 lbs.	15
No. 2..... 50 lbs.	17
No. 3..... 75 lbs.	19
No. 4..... 100 lbs.	21

Prices, including hangings complete.

List Price Bronzed	Retail Price Bronzed
No. 1..... \$4.00	\$1.80
No. 2..... 5.00	2.25
No. 3..... 7.50	3.38
No. 4..... 10.00	4.50

THESE BELLS ARE COVERED WITH  
A RICH GOLD BRONZE AND THE HANG-  
INGS WITH GOOD VARNISH.



THE KEYSTONE  
FOOD CHOPPER

CHOPS

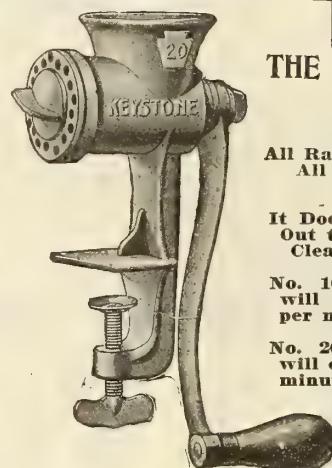
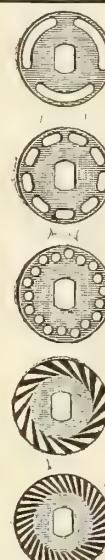
All Raw or Cooked Meats and  
All Kinds of Vegetables  
and Fruits.

It Does Not Mash or Squeeze  
Out the Juices, but Delivers  
Clean Cut Uniform Pieces.

No. 10, weight 3½ lbs.  
will chop 1½ lbs. meat  
per minute. Price each.. \$1.25

No. 20, weight 4½ lbs.  
will chop 2 lbs. meat per  
minute. Price each.... \$1.50

No. 30, weight 6½ lbs., will chop 3  
lbs. meat per minute. Price each.. \$2.00

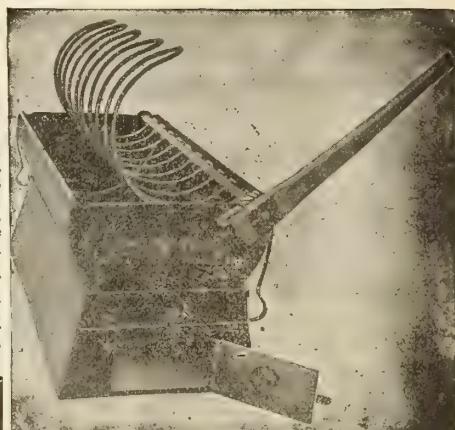


STEEL

HOG SCALDER AND  
FEED COOKER.

Plain Scalder, with legs, 30x18-in x 6 ft., List, \$16.00. Retail, \$12.00. Fire-box, as shown, List, \$13.00. Retail, \$10.00. Rack (net), List, \$13.00. Retail, \$10.00. Table can be built out of wood on the place.

Plain Scalder does very well if placed over a ditch and fire built underneath, but large dealers prefer Rack and Fire-box complete.



CORN BARRELS.

Without handles.....	\$4.50
With handles.....	5.00

With Re-enforced or Double Steel Bottoms.

Bushel—A 101..... \$1.00

UTILITY STEEL BASKETS.

Japanned. Dry Measure. With Bale and Side handles, Half Bushel, 45c. With Patented Clips and Drop Handles, Half Bushel, 45c. Bushel, 60c. 1½ Bushel, 75c.

UTILITY STEEL BASKETS GALVANIZED.

With Bale or Side Handles, ½ Bushel, 50c. 1 Bushel, 65c. 1½ Bushels, 90c.

OAK BASKETS.

1 Bushel with Rim, 80c. 1¼ Bushels, with Rim, 90c. 1½ Bushels, with Rim, \$1.00.

CEDAR AND OAK MEASURES.

½ Peck, cedar, wire hoops.....	\$0.35
½ Peck, cedar, second quality flat hoops.....	.25
½ and ¼ Peck, cedar, combined, wire hoops.....	.45
½ and ¾ Peck, cedar, combined, second quality flat hoops.....	.30
Peck and ½ Peck, cedar, combined, wire hoops.....	.50
Peck and ½ Peck, cedar, second quality flat hoops.....	.40
½ Bushel, cedar, wire hoops.....	.75
½ Bushel, cedar, second quality flat hoops.....	.50
½ Bushel, oak, iron cross-bar.....	1.00

# BALTIMORE CEDAR WASHER.

PRICE,

\$4.00



## ELECTRIC WELDED WIRE HOOPS.

THE Baltimore Washer is constructed of the best white cedar, very strong, nicely finished and is one of the largest round Washers on the market. Round, electric-welded hoops of extra heavy galvanized wire, fitted in a groove around the machine, which prevents them from dropping off. The Baltimore is supplied with improved gearing, and all the castings are japanned. The inside is fully corrugated, similar to a washboard, having no nails or block of any kind. The bottom and sides are corrugated; in others the corrugation runs only the length of the staves, thus making crevices for dirt and allowing the steam to escape through the top and water to leak through the bottom. The bottom of the tub is larger than the top, allowing plenty of room for water and clothes. In this machine is placed a square galvanized iron rod fastened firmly to the dolly.

Instead of using a square wooden post to work the dolly (that is, the circular wooden revolving head that holds the clothes in position), in this machine is placed a square galvanized iron rod fastened firmly to the dolly. The whole arrangement can be lowered or raised by the operator without removing the tops, and it will also accommodate itself automatically to the quantity of clothes, rendering it impossible to tear the most delicate fabric, as this offers nothing to which the clothing can catch.

OUR SPECIAL PRICE.....\$4.00

## ORIOLE CEDAR WASHER.

THE ORIOLE is precisely the same in construction as the Baltimore, described above, and while made of cedar the wood is not selected with the same care.

While the Baltimore is finished in natural wood, the Oriole is painted.

We recommend it as a first-class machine for the money.

OUR SPECIAL PRICE.....\$3.50

## THE MARYLAND WASHER.

To meet the demand for a low-priced Washer, we offer the Maryland, which is made of pine instead of cedar, but in all other respects is the same as Baltimore Cedar, shown above.

OUR SPECIAL PRICE.....\$3.00

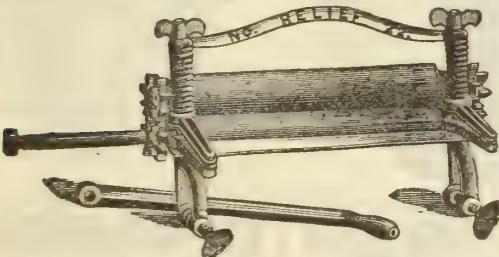
## Griffith and Turner Improved Cedar Rotary Washer, No. 2.

## ELECTRIC WELDED WIRE HOOPS.

IT IS A FACT unquestionably that white cedar is the only wood known that successfully resists the action of water, as, witness, white cedar shingles and posts oftentimes last for a hundred years. Ninety per cent. of the washtub used are made of cedar because they are preferred. That being the case, why should not cedar washing machines also?

This is the lightest-running and easiest-working washing machine made. Roller bearings; no friction. Works in both directions. Very simple; nothing to get out of order. The tubs are made of selected VIRGINIA WHITE CEDAR, and are nicely corrugated on sides and bottom. The hoops are made of galvanized wire, and are welded by electricity. These are much stronger than the old-style flat hoops, and CANNOT DROP OFF, being sunk in grooves.

OUR SPECIAL PRICE.....\$6.00



## RELIEF WRINGER.

IRON FRAME. THE FRAME IS MADE ENTIRELY OF WROUGHT AND  
MALLEABLE IRON.

By the use of the thumb-nuts and spiral springs in this Wringer the pressure can be adjusted quickly for either heavy or light work; therefore the rolls are never overstrained, and will wear much longer than the ordinary iron frame Wringer. With cog wheels. Five sizes. Packed four and six in a case.

## No. 330.—SMALL FAMILY.

Size of Rolls, 10x1 $\frac{1}{2}$  in. Price.....\$3.00

Rolls, each.....\$1.25

## No. 332.—LARGE FAMILY.

Size of Rolls, 12x1 $\frac{1}{4}$  in. Price.....\$3.50

Rolls, each.....\$1.50

## SUPERIOR WRINGER

We also carry a stock of the following well-known Iron Frame Wringers:

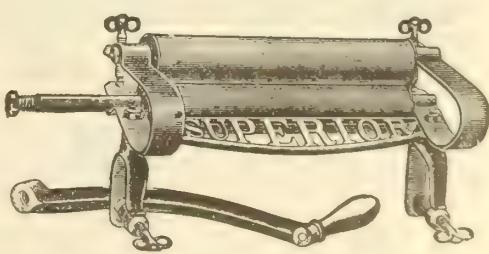
Name	Size of Rolls.	Price.
Superior, No. 210.	10x1 $\frac{1}{2}$ inch.	\$2.75
Superior, No. 212.	12x1 $\frac{1}{4}$ inch.	3.25
Star, No. 10.	10x1 $\frac{1}{2}$ inch.	2.00

CRESCENT.—Same as Relief, but cheaper grade rolls.

No. 130.....	10 inch.....	2.50
No. 132.....	12 inch.....	3.00

## EXTRA ROLLS—

Superior .....	10 inch .....	1.25
Superior .....	12 inch .....	1.50
Cheaper grade.....	10 inch .....	.75
Cheaper grade.....	12 inch .....	1.00



# THE DAIRY.

## SHARPLES' CREAM SEPARATORS

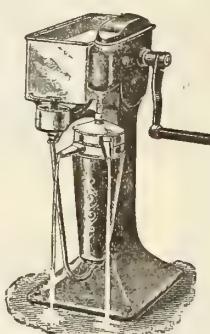
### SIT DOWN TUBULAR

The most convenient, practical and efficient small capacity separator ever built. Designed for the use of those having only one or two cows. Carefully made from selected materials and built exactly like the larger machines. It stands 20 inches high—can be operated at full speed and capacity by a child—runs very smoothly—skims to perfection, being as perfect in action as our larger machines.

Price.

No. 1, Capacity 175 lbs. per hour... \$40.00  
 No. 2, Capacity 275 lbs. per hour... 55.00  
 No. 3, capacity 350 lbs. per hour... 65.00

These three sizes are readily turned by one who is seated. They stand only 2 feet 9½ inches high; the supply can is still lower.



### SHARPLES' TUBULAR HAND SEPARATOR

**Suspended Bowl, Bottom Feed, Low-down Supply Can, Easy Running, No Discs.**

The bowl of the 650-lb. machine is only 2½ inches in diameter and weighs less than 7 lbs., including every revolving part, and requires even less power to run it at its full capacity than any 330-lb. per hour hand machine in existence.

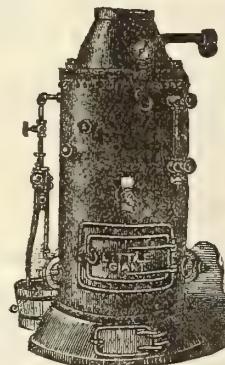
All the objectionable features of discs, cones, cylinders and other devices introduced in the bowl to facilitate separation, together with their attendant expense and maintenance, and the great amount of time and work required to clean and keep in perfect working order are done away with in the tubular bowl, and by reason of its small size and light weight the power necessary to run it to its fullest capacity is reduced to a minimum. **No Discs, please remember.**

No.	STAND UP SIZES.	Price.
4,	Capacity 450 lbs. per hour.....	\$ .80
6,	Capacity 650 lbs. per hour.....	100
8,	Capacity 900 lbs. per hour.....	125

Pulley Power Attachment, \$2.50 Additional.

These three sizes stand only 3 ft. 6 in. high. The supply can is still lower.

### SEPARATOR BOILER



Expressly for use with our Tubular Steam Turbine Separators, although any small boiler or feed cooker will answer the purpose, as they require no more steam than will go through a good-sized straw.

The first cost of a Steam Turbine machine and Little Giant Boiler is a little more than the first cost of a corresponding capacity hand separator. Taking into consideration the fact that the former can be conveniently operated for a longer time and larger dairy, and also that the boiler is worth its full cost for furnishing hot water and steam for the many uses about a farm, will commend the same to your careful consideration.

These boilers are carefully trimmed and provided with an injector.

Price, complete.....\$50.00

### Steam Turbine Tubular Dairy Separator

DRIVEN DIRECT FROM THE BOILER.  
MADE IN THREE SIZES.

No.	Capacity.	Price.
5	500 pounds per hour.....	\$100
7	700 pounds per hour.....	125
10	1,000 pounds per hour.....	150

Either size, with Little Giant Boiler, \$50 extra.

#### SEPARATOR OIL.

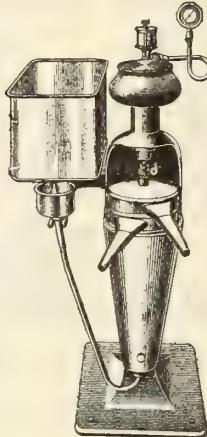
Gallon Can, \$0.75. 5-Gallon can, \$2.50.

Just a jet of steam, not much larger than would go through a straw, drives it to full speed.

An Armload of Wood or a bucket of coal will furnish the needed fuel for the smaller machines for an hour's run. After being properly started no other attention is needed than the supplying of sufficient milk.

The bowl when apart has a wide-open mouth, and not much more trouble to clean than a tin cup would be. In cleaning there is no danger of misplacing small complicated parts, for it has no such parts.

This machine stands 36 inches high—requires very little steam—is the most efficient power separator for dairy use.



### THE SQUEEZER COMBINED CHURN AND BUTTER WORKER

The idea in this machine is to follow the old method of squeezing butter with a paddle in preference to grinding between rolls, as other butter workers do at present.

One portion of the butter is taken up by a paddle and squeezed against side of churn and another portion by another paddle, and so on. At no point is the butter ground or allowed to stick, thus avoiding marbleizing.

Can be changed from churn to worker or the reverse by action of one lever, and can be done going at full speed.

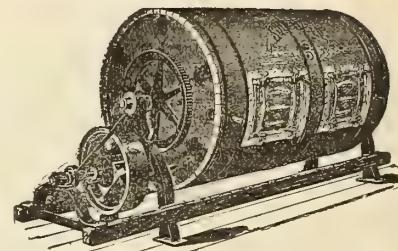
#### DAIRY SIZES.

Size	Full Cap'y	Will Churn	Will Work	Ship'g Weight	Retail Price
No.	Gal.	Gal.	Lbs.	Lbs.	
0	50	35	70	735	\$ 95.00
1	100	75	150	807	125.00
2	150	115	230	870	185.00

#### CREAMERY OR FACTORY SIZES.

Size.	Full Cap'y	Will Churn	Will Work	Ship'g Weight	Retail Price
No.	Gal.	Gal.	Lbs.	Lbs.	
3	300	225	450	1340	\$155.00
4	400	300	600	1475	175.00
5	500	375	750	1670	195.00
6	600	450	900	1930	220.00
7	700	500	1000	2105	255.00

Arranged for two speeds when wanted. One speed for working and churning. Special Discount for Cash.



WRITE FOR TESTIMONIALS ABOUT THESE SEPARATORS.

## The "Doty" Ventilating and Aerating Cream Separator



For the benefit of persons who do not object to mixing water and milk for the purpose of facilitating the separation of cream, we offer the Doty Single-Compartment Separator.

The reversible cover and anti-whirlpool bottom, also the method of aerating the milk, are the same as found in the NORTH STAR. The only difference in the two lies in the single and double compartment feature.

No.	Diam.	Height.	Gals.	Cows.	Cap.
1....	12 in.	25 in.	10	2 to 3	
2....	14 in.	27 in.	15	3 to 4	
3....	17 in.	27 in.	22	4 to 7	
4....	19 in.	27 in.	29	7 to 10	

### PRICES:

No.	List Price	Retail Price
1.....	\$5.00.....	\$4.00
2.....	6.00.....	4.80
3.....	7.00.....	5.60
4.....	8.00.....	6.40

## CHAMPION AUTOMATIC MILK COOLER-AERATOR



**TO OPERATE**—Set as low as possible where there is plenty of pure, fresh air; if the wind blows, the better. It can be used in the strongest wind without a drop being blown away. Use very cold water. Use a cloth or metal strainer over the top of milk receiver.

No.	Capacity of Milk Receiver.	Size of Dairy.	Takes Care of	List Price.	Retail Price.
1.....	10 quarts	1 to 10 cows	2 milkers	\$7.00	\$5.50
2.....	18 quarts	10 to 25 cows	3 milkers	7.00	5.50
3.....	34 quarts	25 to 50 cows	5 milkers	8.00	6.50
4.....	52 quarts	50 to 100 cows	8 milkers	10.00	8.00

Extra sizes on special orders. Prices include double cheesecloth strainer and spring pins.

**STRAINERS**—Strainers of the finest mesh wire cloth (100 meshes to the inch) furnished at following prices:  
Nos. 1 and 2, \$1.00. No. 3, \$1.25. No. 4, \$1.50.

## The New Sanitary Cream Separator.



STYLE A.



STYLE B.

Inside of bottom aluminized to prevent rusting.

1. Milk and water are not mixed.
2. You can draw pure, sweet, undiluted milk for household use any time without disturbing the cream. The skim-milk makes excellent feed for stock.
3. It is a most convenient and labor-saving apparatus for the farmer and dairyman. Saves all lifting, skimming and handling of crocks and pans.
4. Milk vessel is easily and quickly removable without unscrewing the faucet.
5. The faucet is large and short in the neck and drilled out smooth on the inside. Will draw off cream and milk rapidly without clogging.

List price. Ret. pr.  
Style A, No. 6—Capacity, milk part, 6 gals.... \$7.00 \$5.60  
Style A, No. 8—Capacity, milk part, 8 gals.... 8.00 6.40  
Style B, No. 8—Capacity, 8 gallons.... 11.00 8.80  
Style B, No. 12—Capacity, 12 gallons.... 12.00 9.60

Style A is most popular where only a few cows are milked. Style B where large milk capacity is needed.

## TRAPP'S PATENT COW TAIL HOLDER

If you wish to make it pleasant in milking, you should use Trapp's Patent Cow Tail Holder. Does not irritate or make a cow kick. Easily and quickly operated. Holds the tail firmly. Retail price, 15c. Two for 25c.



## Rice's Calf Weaners

Also Prevents Cows from Sucking Themselves.

No. 1, for Calves, retail price 30c. List price, per doz., \$4.00.  
No. 2, for Heifers, retail price, 50c. List price, per doz., \$6.50.  
No. 3, for Cows, retail price, 75c. List price, per doz., \$9.75.

## The "North Star" Ventilating and Aerating Double Compartment Cream Separator

Ventilating and Aerating Double Compartment



In some localities people are averse to adding water to milk, and to meet this demand we are putting a two-compartment separator on the market.

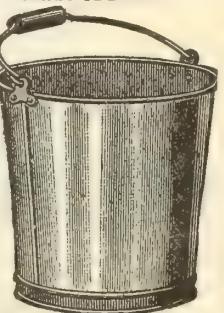
Separation is effected by a circulation of cold water in an outer jacket. All the cream rises to the surface in an hour or two, and is drawn off sweet, suitable for table use or other purposes.

The milk strikes the disc below and spreads out in a thin sheet. The milk receptacle being plunged in cold water, when this thin sheet of warm milk strikes the sides and bottom, forces cold air upwards through the milk, escaping in sheets from aerator, thus driving out all animal heat or foul gases.

No.	Capacity.	List Price.	Retail Price.
1.....	1 to 2 cows....	\$6.00	\$4.80
2.....	3 to 4 cows....	7.00	5.60
3.....	4 to 5 cows....	8.00	6.40
4.....	5 to 6 cows....	9.00	7.20

## MILK PAIL

Made of Best Tin.



### PRICE

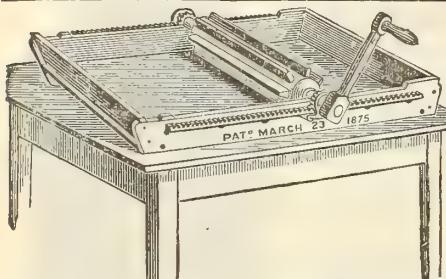
No. 110—10 qts....	30c.
No. 112—12 qts....	40c.
No. 510—10 qts....	50c.
No. 512—12 qts....	55c.
No. 514—14 qts....	60c.

The underlying principle of the Calf Feeder is: The calf by sucking its milk takes it slowly and mixes the saliva of the mouth with the milk, which makes it spongey instead of a solid indigestible lump formed when the milk is gulped down from a bucket. This is the greatest cause of scours. We have both a single and double feeder. One calf can use the double feeder, as each part works independently of the other.

**COMMON SENSE Calf Feeder**  
Gold Medal Pan-American Exp.  
The only feeder adopted by Experiment Stations.  
Satisfaction guaranteed.  
Prevents Scours.  
Weans perfectly. Calves take to it like a baby to the bottle.  
It's Nature's Own Way. Extra gain on one calf per day for two feeders.  
Over 100,000 In Use. More than all others combined.  
Nipples are reinforced without seams.  
Durable, Simple, Economical, Scientific and Practical.

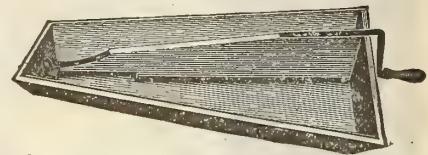
Single Calf Feeder (2 Nipples)..... \$2.00  
Double or Twin Feeders..... 3.00  
Calf Nipples and Long Tubing, each..... 25c

## THE DAIRY—Continued.



REID'S BUTTER WORKER.				
Inside Measurem't.	Capac'y.	Wght.	List Price.	Retail Price.
1.—23x36x2½ in.	50	45	\$10.00	\$8.00
2.—20x36x2½ in.	30	29	8.00	6.40
3.—17x27x2½ in.	20	25	7.00	5.60
4.—14x24x2½ in.	10	20	6.00	4.80
Larger size—especially designed for mixing, re-working and coloring, or creamery use.				
Inside Measurem't.	Capac'y.	Wght.	List Price.	Retail Price.
0.—23x37x3 in.	75	60	\$12.00	\$9.38
00.—23x56x3 in.	112	80	15.00	11.25
000.—23x72x3 in.	150	100	18.00	13.50

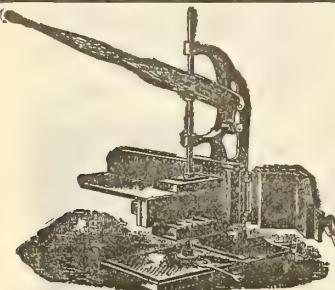
When desired, we can send legs along with any size machine for \$4.00 extra, which can be set up after arrival at destination.

**ACME BUTTER WORKER.**  
 The Greatest Labor Saver for the General Butter Maker Ever Introduced.


It is the only worker made in which butter can be washed (same as in bowl), then the water drawn off and the butter worked without delay. \$2.00.

## WELLS, RICHARDSON &amp; CO.'S BUTTER COLOR.

Will not color the buttermilk; will never turn rancid; gives the brightest and best color; butter never becomes reddish; perfect economy in use. It is cheaper than any other coloring, being put up in three sizes, selling at 25c. to color 500 pounds; 50c. to color 1250 pounds; \$1.00 to color 2800 pounds.



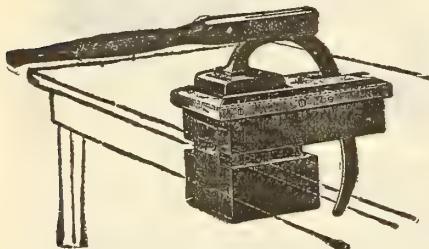
## REID'S SELF-GAUGING BUTTER PRINTER.

Prints butter very neatly and quickly. Weighs into pounds or half pounds as desired. Does it in one-quarter the time it can be done by hand, making prints of uniform weight. Moulds are square.

## PRICE.

Either pound or half pound.....	\$10.00
Both pound and half pound combined....	13.50
Extra for initials and monograms.....	1.50

## LA FAYETTE BUTTER PRINTER.

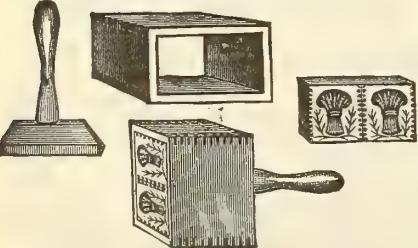


This is also self-gauging. Intended for use in creameries, but more especially for reprinting. Very simple and handy.

Either pound or half-pound with table, \$15.00.

Either pound or half-pound with-out table, \$10.00.

## BRICK BUTTER MOULD.



## Seeley Pattern.

Furnished with sheaf of wheat. Movable block,  $\frac{1}{2}$  pounds.

Seeley Pattern..... 60c.

## LADLES AND SPADES.

No. 1 Spades..... 10c.  
Same, 4x12 inches..... 10c.  
Factory size, 16x7½ inches..... 40c.

Round Prints,  $\frac{1}{2}$  lb..... 10c.  
Round Prints,  $\frac{1}{4}$  lb..... 10c.

## INDIVIDUAL BUTTERS.

Square,  $\frac{1}{2}$  ounce..... 15c.  
Square, 1 ounce..... 15c.  
Round, 1 ounce..... 10c.



Fig. 2—R. & B.  $\frac{1}{2}$  lbs., round..... \$0.25

Fig. 2—R. & B. 1 lb., round..... .30

Fig. 3—R. & B.  $\frac{1}{2}$  lb., square..... .30

Fig. 3—R. & B. 1 lb., square..... .35c.

Fig. 4—Philadelphia Pattern,  $\frac{1}{2}$  lb..... \$1.00

Fig. 4—Philadelphia Pattern, 1 lb..... 1.50

Can furnish square moulds to order with initials cut at an extra cost of \$1.00.

## THE CHAPMAN PATENT CHANGEABLE STRAINER (See Cut).

## Model No. 2—with Cheesecloth Attached.

For the use of small dairies or for household purposes, for which a medium-sized strainer is used, such as fruit, paint, vinegar, lard, etc.

## Model No. 3—with Cheesecloth Attachment.

Especially adapted to the use of large top straight cans. The shape of No. 3 is such that it can be used on any sized can, either small or large top.

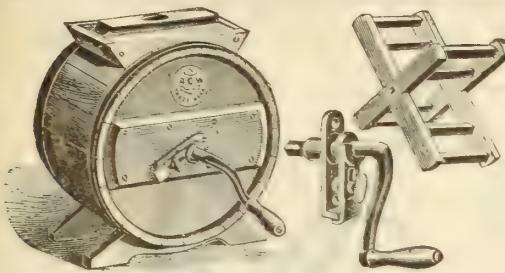
Chapman, Model No. 2..... \$0.75  
Same, Model No. 1..... 1.25

## POLISHED MAPLE BOWLS.

Bowls, 15 inches..... 25c.  
Bowls, 17 inches..... 40c.  
Bowls, 19 inches..... 60c.

## FLOATING GLASS THERMOMETERS.

GLASS DAIRY THERMOMETER  
8-in. Dairy Thermometer, stands boiling water, price 50c. each.  
Milk Hydrometer, No. 2080, 40c.  
Milk Hydrometer, No. 2085 (Quevenne), 75c.  
Add 5 cents each, if by mail.



## Cooley Cabinet Creamer



All tanks are built refrigerator style, with paper between the sheet iron and the wood. In addition it has a compartment or chamber underneath the water tank, through which the milk and afterward the cream are drawn. The transparent pane in front enables the operator to see the cream line. The cream line is not broken up in withdrawing the milk, which avoids all commotion or whirlpool when the milk is running out. A perfect separation is made. The cans are easily removed from the tank when desirable or necessary. They are easily washed without removing. The water tank has inlet and overflow pipes for running water.

### DAIRY CLASS.

No.	Cans.	Cows.	Weight.	Price.
0	1	1 to 3	185 lbs.	\$20.00
00	2	4 to 6	203 lbs.	27.00
1	3	6 to 9	256 lbs.	33.00
2	4	9 to 12	313 lbs.	40.00
3	6	12 to 18	390 lbs.	52.00
4	8	18 to 24	428 lbs.	64.00

Cans are known in the market as 5-gallon cans, but hold 19 quarts.

### FAMILY CLASS.

Cans one-half capacity of large cans.				
No.	Cans.	Cows.	Weight.	Price.
A	2	1 to 3	183 lbs.	\$20.00
B	3	3 to 4	216 lbs.	26.00
C	4	4 to 6	268 lbs.	32.00

Special Refrigerators in any size  
Cabinet Creamer, extra..... \$5.00  
Partitions in Cabinet Creamers,  
extra ..... 1.00  
Faucet in outlet end instead of  
overflow ..... 1.00  
Faucet outlet in addition to over-  
flow, extra ..... 1.50  
Stopper for closing openings when  
cans are removed, with nut  
and rubber packing ..... .30  
No. 4 and larger have two rows of  
cans and doors in each side, or in one  
row if so ordered. Prices of Creamers  
with tin-coated copper lining or cop-  
per cans given on application.

All sizes of Creamers have inlet and  
overflow pipes.

All sizes and styles of Creamers have  
thermometers in front side, which give  
the temperature without raising the  
cover. All thermometers are at pur-  
chaser's risk of breakage.

## Improved Cedar Cylinder Churns

There are a number of Cylinder Churns on the market sold at a lower price, but they are made of pine or other inferior wood, while these are all of selected cedar, free of knots. Retail List Price.

No.	1—2 3/4 gallons	2—4 "	3—7 "	4—10 1/2 "
	\$1.85	2.25	3.00	3.50
			2.60	4.00
			3.00	

## Baltimore Favorite Churn.



Patented July 5, 1891.

It is made of thoroughly seasoned material. It is finished smooth inside as well as outside. The iron ring head is strong and not liable to break. The balls are fastened to the iron ring, where they need to be fastened.

We furnish pulleys for power. Prices extra, according to size desired. Directions for using in each Churn.

Write for special discount for cash.

### PRICES. List Retail

No. Capacity.	To Churn.	Price.	Price.
0—6 gallons	3 gallons	\$8.00	\$5.00
1—10 "	5 "	9.00	5.50
2—15 "	7 "	10.00	6.00
3—20 "	10 "	11.00	6.75
4—25 "	12 "	14.00	8.50
5—35 "	17 "	16.00	10.00
6—60 "	30 "	26.00	16.00
7—75 "	37 "	30.00	18.50
8—90 "	45 "	35.00	21.00

10 inch Single Pulleys for above, list \$3.25, retail \$2.00.

## "IRON CLAD" MILK CANS.

The Baltimore Pattern is the standard "Iron Clad" Baltimore Pattern Milk Can. Smooth inside surface, without crevices or protruding rivet heads, which enables cans to be easily, quickly and thoroughly cleaned.

"Iron Clad" Milk Cans are made of steel and heavily tinned by the hand-dipping process after they are formed.

### THE BALTIMORE PATTERN.

20-quart .....	\$2.25
30-quart .....	2.60
40-quart .....	3.20

### Special Prices in Quantities.

We also carry a cheaper can, known as THE BALTIMORE CREAMERY CAN.

They are well made, but not so heavily tinned.

20-quart .....	\$2.00
----------------	--------

Our charge for marking name on can will be 25 cents each.

## Iowa Creamery Can.

### Special Prices in Quantities.

20-quart .....	\$2.10
32-quart .....	2.50
40-quart .....	2.60



IOWA.

## THE "AGOS."

Cast-Iron Frame Hand Babcock Tester.

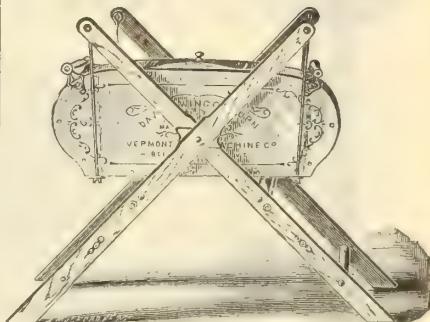


The "Agos" Tester uses the ordinary Babcock bottle, the "B. & W." or the "Ohlsson" patent. With each tester is furnished the following outfit: Full set of regular Babcock milk bottles, pipette, acid measure, acid sufficient for making 50 to 100 tests, and directions for manipulating.

They are made in five sizes as follows:

4 Bottles.....	\$8.00
6 Bottles.....	9.00
8 Bottles.....	10.00
12 Bottles.....	12.00
12 Bottles.....	\$14.00

## Davis Swing Churn.



### EASY TO KEEP CLEAN.

The round ends of the Churn cause the cream as it strikes against them to slide up and over, turning a complete somersault. The butter comes in beautiful granules in the most desirable form for washing in cold water or brine.

Each Churn has a glass indicator in the cover. The lid is ventilated, and there is no slopping or dripping of cream. Easy to operate. Wt.

No.	Will churn.	Capcy.	Lbs.	Price.
1—4 gals. or less.	8 gals.	55	\$7.00	
2—5 "	10 "	59	8.00	
3—8 "	16 "	73	10.00	
4—10 "	20 "	85	12.00	
5—13 "	26 "	98	15.00	
6—17 "	31 "	112	18.00	

Additional for Pulley, 12x3, with attachments, \$4.00.

Additional for Tight and Loose Pulley, 12x3, with attachments, \$5.50.

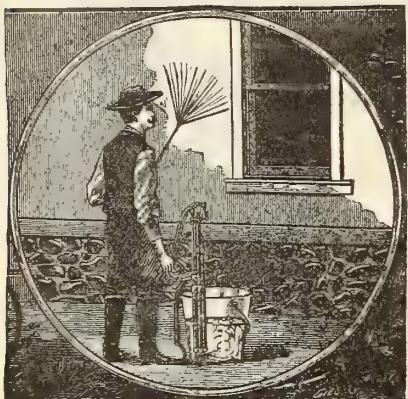


FIG. 632.

## LEVER BUCKET SPRAY PUMPS

(Fig. 632.)

The lime must be thoroughly slaked and carefully strained through a 20-mesh wire cloth into the vessel from which it is pumped; it also must be thoroughly and frequently stirred. It is necessary, when you cease spraying for a short time, to clean the pump thoroughly on the inside with water, so as to remove all lime to prevent clogging.

**Figure 632.** No. 324. Lever Bucket Spray Pump, with Agitator, complete with hose and nozzle.

Factory list price, \$6.00. Our Special price, \$4.00.

No. 324A. Lever Bucket Spray Pump, with Agitator, complete with hose, nozzle and eight-foot pipe extension. Factory list price, \$6.50. Our Special Price, \$4.35. If wanted for whitewashing or painting, so state in order, and Bordeaux Nozzle will be sent. Installed in barrel at \$2.00 extra.

**For Whitewashing and Painting.** Always Use Bordeaux Nozzles for This Work. One-and-One-Quarter-Inch Cylinder. Notice the Lever and Patent Agitator. Observe Their Advantages. Can be Used in Bucket or Can be Attached to Top of Barrel.

List price, \$10. Retail price, \$7.  
No. 306, Fig. 766, complete with two leads of hose of  $\frac{1}{2}$ -inch three-ply, each 5 feet long, and two Vermorel Nozzles and Agitator.

List price, \$12. Retail price, \$8.

Bordeaux Nozzles instead of Vermorel furnished when wanted. Installed in barrel, \$2 extra.

Paddle Agitator extra. List Price, \$1.00, Retail Price, 75c.



## LITTLE GIANT BRASS SPRAY PUMP AND FIRE EXTINGUISHER, with Agitator

Fig. 639. This Spray Pump is constructed entirely of brass. It is so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up.

### PRICE LIST OF PUMP SHOWN.

No. 327 $\frac{1}{2}$ , Fig. 639. Bucket Brass Spray Pump with Agitator, complete with hose and combination fine, coarse spray and solid stream nozzle. List price, \$5.00. Retail price, \$3.00.

No. 328, Fig. 639. Bucket Brass Spray Pump with Agitator, complete with hose and combination fine, coarse spray and solid stream nozzle and an eight-foot pipe extension. List price, \$5.50. Retail price, \$3.35.

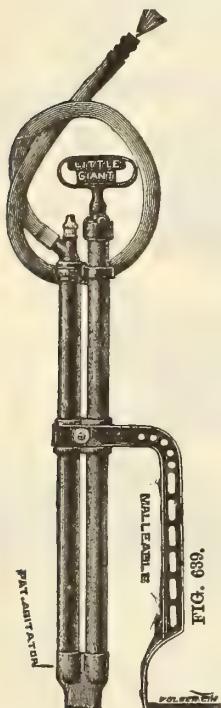


FIG. 639.

### SPRAY PUMP EXTRAS. (Order by Figure.)

Fig. 48.—Bamboo Rods, lined with brass pipe, arranged with brass stop cock, \$3.00.  
Fig. 545—Iron pipe, complete, with cock, \$1.00. Iron pipe, without cock, 35c.  
Fig. 65—To make connection between  $\frac{1}{2}$  or  $\frac{3}{4}$ -inch hose coupling and spray nozzle, 25c.  
Fig. 67—Has male end to wire into  $\frac{1}{2}$ -inch hose, other end cut  $\frac{1}{4}$ -inch male pipe thread, 25c.  
Fig. 85—Brass stop cock shank for wiring  $\frac{1}{2}$ -inch hose, other end  $\frac{1}{4}$ -inch male thread, 65c.  
Fig. 54—Brass stop cock, cut  $\frac{1}{4}$ -inch female pipe thread both ends, 65c.  
Fig. 1338—Brass stop cock, cut  $\frac{1}{4}$ -inch female pipe thread both ends, \$1.25.

### (Fig. 504.) BRASS HOSE COUPLINGS.

Size, inches.....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{2}$	2
Price, each.....	15c.	15c.	25c.	75c.	\$1.00
Fig. 89— $\frac{3}{4}$ -inch Brass Nipples.....					\$0.25
Wing Agitator Comp. for Pomona.....					1.25
Wing Agitator Comp. for Fruit-All.....					1.00
Fig. 49—Brass Y with male pipe thread on inlet.....					.80
Fig. 49 $\frac{1}{2}$ —Brass Y, female thread on inlet, for two nozzles.....					.80
Fig. 1074 $\frac{1}{2}$ —Brass Y for two nozzles.....					.50

### FUNNEL AND STRAINER. (Fig. 1273.)

Tin, with brass 20-mesh wire strainer..... \$1.50  
Galvanized, with brass 20-mesh wire strainer..... 1.75

### BRASS HOSE CLAMPS. (Fig. 1272.)

A Screwdriver does the business.

Size, inches.....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Price, each.....	5c.	5c.	10c.	15c.	20c.	25c.

### RUBBER HOSE FOR SPRAY PUMPS.

$\frac{3}{8}$ -inch tubing, per foot..... 8c.  $\frac{1}{2}$ -in. Spray, No. 2, per ft. 20c.  
 $\frac{1}{2}$ -inch Oriole, per foot..... 10c. 1-in. Baltimore, per foot. 20c.  
 $\frac{1}{2}$ -inch Spray, No. 1, per ft. 15c. 2-in. wire-lined suction, ft. 40c.

### 3-4 INCH HOSE.

**ORIOLE**, 3-ply,  $\frac{3}{4}$ -in., in 25 and 50-ft. lengths (100 pounds pressure)..... 10c.

**GRIFFITH & TURNER CO.'S EXTRA**, 3-ply,  $\frac{3}{4}$ -in., in 25 and 50-foot lengths (125 pounds pressure)..... 12c.

**CREST SPECIAL**, 3-ply,  $\frac{3}{4}$ -inch, 25 and 50-foot lengths (200 pounds pressure)..... 17c.

**GRIFFITH**, 5-ply  $\frac{3}{4}$ -inch, in 25 and 50-foot lengths (500 pounds pressure)..... 16c.



FIG. 1074 1/2.



FIG. 1338.



FIG. 54.



FIG. 504.



FIG. 65.

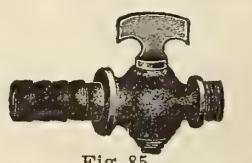


FIG. 85.



FIG. 89.



FIG. 1272.



FIG. 49.



FIG. 67.



FIG. 49 1/2.

## SPRAY PUMPS, ETC.

FIG.  
1100.GOULD'S  
"Pomona"  
Spray Pump.

With Agitator. All Working Parts Bronze.

## PLUNGER.

Diameter	Stroke,	Discharge,
2½ inch.	Adjustable to 3, 4 or 5 in.	½ in. hose.

No leather packing. Valves are brass; easily accessible; wing guided on beveled seats, ground to fit. Air chamber steel. Lever long and powerful, with adjustable stroke, 3, 4 or 5 inch. Solid brass plunger, machine turned, fitting gland accurately. Pump is held securely by adjustable clamp plate, made to fit either end or side of barrel, and by a small anchor located at bottom of barrel. The mechanical agitator is operated by stroke of the handle.

Fig. 1100,  
Equipment,  
Prices, Etc.

We mount the "Pomona" Spray Pump in barrel, ready for use, at additional net cost of \$2.00.

List Price | Retail Price

Fig. 1100.  
OUTFIT A, FOR  
SINGLE LEAD.

Fitted for one lead ½ in. discharge hose with hose bands, couplings, agitator and 1 Vermorel (or other spray nozzle, except Mistry), but without hose.

19.50 | 15.25

Rubber hose, extra per ft., ½ in.

.10

Oriole . . . . .

.15

½ in. spray No. 1 . . . . .

.20

½ in. spray No. 2 . . . . .

.20

Barrel extra . . . . .

2.00

Fig. 1100.

OUTFIT B, FOR  
DOUBLE LEAD.

Fitted for two leads ½ in. discharge hose with hose bands, couplings, agitator and 2 Vermorel (or other spray nozzles, except Mistry), but without hose.

22.50 | 17.50

Rubber hose, extra per ft., ½ in.

.10

Oriole . . . . .

.15

½ in. spray No. 1 . . . . .

.20

½ in. spray No. 2 . . . . .

.20

Barrel extra . . . . .

2.00

Fig. 1100.

OUTFIT B, FOR  
DOUBLE LEAD.

Fitted for two leads ½ in. discharge hose with hose bands, couplings, agitator and 2 Vermorel (or other spray nozzles, except Mistry), but without hose.

22.50 | 17.50

Rubber hose, extra per ft., ½ in.

.10

Oriole . . . . .

.15

½ in. spray No. 1 . . . . .

.20

½ in. spray No. 2 . . . . .

.20

Barrel extra . . . . .

2.00

These Pumps, Figs. 1100 and 1188 are peculiarly adapted to the use of lime, salt and sulphur solution, but can also be used for other insecticides.

## USE KIL-O-SCALE

## WATER TRUCK ON BARREL.

Any of the above pumps installed in barrel and truck, as shown in cut, furnished with steel wheels. Add to price of outfit:

	List.	Retail.
Reg. Tire.....	\$14.00	\$8.00
2½ in. Tire... .	15.50	9.00
3½ in. Tire... .	17.50	10.00

In ordering, always state the length and kind of hose wanted.

## SPRAY WITH

## KIL-O-SCALE

See Page 75.

These pumps are admirably adapted for whitewashing or painting, but Bordeaux Nozzle should be used.

For San Jose Scale, use KIL-O-SCALE

## Gould's "Fruitall" Spray Pump.

With Agitator. All Working Parts Bronze.



"Fruitall" Spray Pump is made on the same general lines as our now famous "Pomona." It is, however, lighter and of smaller capacity. All working parts, including plunger, gland, valves, valve seats and strainer, are of brass. Regularly fitted with wing agitator similar to one used on "Pomona," and which has proven to be the best type. Pump is held in barrel by anchor at bottom and adjustable clamp at top, fitting over end of stave. Not made for side of barrel. The agitator is a perfect working device and answers every purpose for anyone desiring a lighter and cheaper pump.

## PLUNGER.

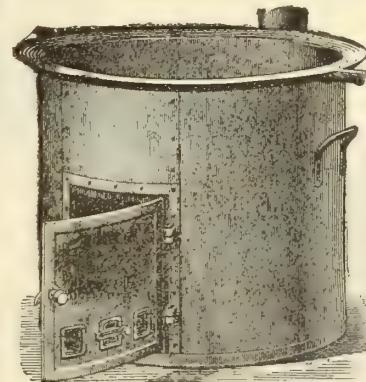
Diam.	Stroke,	Discharge,
2 in.	4 in.	½ in. hose.

FIGURE 1188.

Figure 1188.  
Pump, Equipment, Etc.

List Price	Retail Price
12.50	9.50
.10	.15
.20	.25
2.00	

OUTFIT A, FOR ONE LEAD OF HOSE.	Fitted for one lead of ½ in. discharge hose with hose bands, couplings, agitator and 1 Vermorel (or other spray nozzle, except Mistry), but without hose. . . . .	12.50	9.50
OUTFIT B, FOR TWO LEADS OF HOSE.	Fitted for two leads of ½ in. discharge hose with hose bands, couplings, agitator and 2 Vermorel (or other spray nozzles, except Mistry), but without hose. . . . .	15.00	11.50
	Rubber hose, extra per ft., ½ in. Oriole . . . . .	.10	.15
	½ in. spray, No. 1, for caustic washes . . . . .	.20	.25
	½ in. spray, No. 2, for caustic washes . . . . .	.20	.25
	Barrel extra . . . . .	2.00	

Cook Your Lime, Salt and Sulphur with  
G. & T. Boiler and Feed Cooker

Heavy cold rolled steel furnace; extra large feed door; wrought iron handles, firmly riveted on Kettles smooth, heavy cast iron. Door, frame and flue collar cast iron. Never buckles or warps from heat; designed to set on ground or brick foundation; especially adapted for cooking feed, rendering lard, making soap, scalding hogs, poultry, etc. Cast iron flues are constructed inside this, retaining heat and economizing fuel. We always ship furnace for wood fuel unless otherwise specified.

Also used for lime, sulphur and salt.

## PRICES OF G. &amp; T. BOILER AND COOKER

Actual Capacity.	Diam. of Furnace.	Shipping Weight.	List Price Furnace with Kettle.	Retail Price Furnace with Kettle.	List Price Kettle only.	Retail Price Kettle only.
30 gallons.	26 inches.	150 pounds.	\$13.00	\$9.75	\$7.00	\$4.25
33 gallons.	28½ inches.	175 pounds.	14.00	10.50	8.00	5.25
48 gallons.	31½ inches.	200 pounds.	16.50	12.40	12.00	7.75
53 gallons.	32 inches.	225 pounds.	18.00	13.50	13.00	8.25
75 gallons.	36 inches.	275 pounds.	24.00	18.00	18.00	11.00

Spray with KIL-O-SCALE during dormant season.



Fig. 1318.

## PUMP, EQUIPMENT, ETC.

No. 0.	Dia. Cyls. 2 in.	Suction, 3/4 in. hose.	Discharge 1/2 in. hose.	List Price.	Retail Price.
Fig. 1318. Outfit C, for one lead of 1/2 in. discharge hose.	Fitted for 3/4 in. suction hose and one lead of 1/2 in. discharge hose, with strainer, hose bands, couplings, and one Vermorel (or other spray nozzle, except Mistry), but without hose...			\$28.50	\$21.50
Fig. 1318. Outfit D, for two leads of 1/2 in. discharge hose.	Fitted for 3/4 in. suction hose and two leads of 1/2 in. discharge hose, with strainer, hose bands, couplings, and two Vermorel (or other spray nozzles, except Mistry), but without hose...			\$32.25	\$24.50
Fig. 1318. Outfit E, for four leads of 1/2 in. discharge hose.	Fitted for 3/4 in. suction hose and four leads of 1/2 in. discharge hose, with strainer, hose bands, couplings and four Vermorel (or other spray nozzles, except Mistry), but without hose...			\$37.50	\$28.50
<b>Rubber Hose for Above Outfits.</b>				15c. 20c. 20c.	
1/2 in. spray, No. 1, for caustic washes 1/2 in. spray, No. 2, for caustic washes 3/4 inch suction.					
In ordering, please give length of hose wanted, also the outfit.					

LEVER KNAKSACK  
SPRAY PUMP

FIG. 547.—NO. 330.

Tank holds 5 gallons, is fitted with lid and strainer, which can be removed. This Pump has lever, large air chamber, ball valves, solid plunger and agitator. It is so arranged that no water can drip on the operator. Fitted with 5 feet 1/2-in. hose, pipe extension and Bordeaux spray nozzle; can be graduated from a fine mist to a solid stream or shut off entirely. Retail price, \$6.00.

List price,  
**\$10.00.**

Any other nozzle furnished with these pumps when ordered, except Mistry.

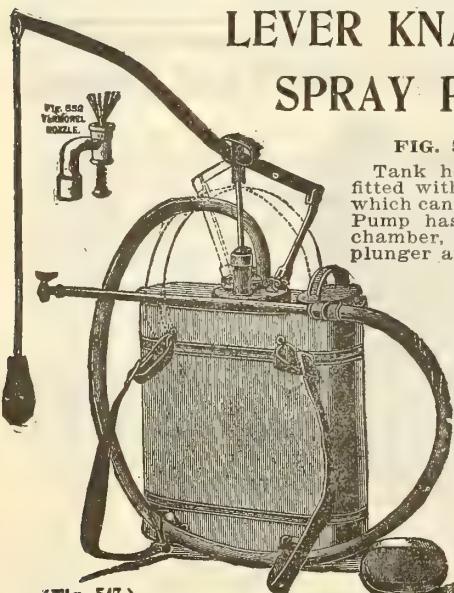
(Fig. 547.)

## THE PERFECT KNAKSACK SPRAY PUMP.

Fig. 547.—No. 331.

It is identically the same as 330, with the exception that the tank is constructed entirely of copper. Complete with hose, stop-cock pipe extension and Bordeaux Nozzle.

Retail price, \$10.00. List price, \$16.00.



## The Auto-Spray

A Self-Operating or Automatic Sprayer.

Length of cylinder, 21 inches; weight, loaded, 39 pounds; diameter of cylinder, 7 inches; capacity, about 4 gallons; weight, empty, 7 pounds; extension pipes extra.

A few strokes of plunger in air chamber will compress enough air to discharge the entire contents and make a continuous spray for nine minutes. This means that the "Auto-Spray" can be charged in 15 seconds, when it will work uninterruptedly long enough to spray a quarter-acre of potatoes. The spray can be made to flow fast or slow by merely turning the cock of the nozzle, and it will throw either a cloud-like shower or a solid stream.

## PRICES.

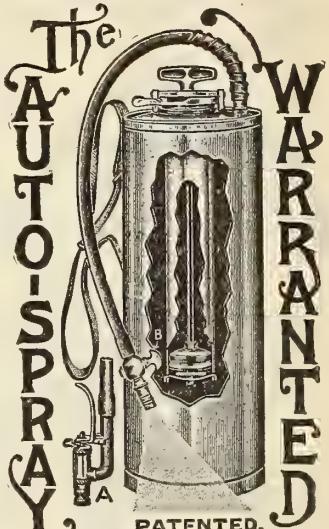
Auto-Spray No. 1A, Brass Reservoir, Stop Cock, List Price, \$7.50, Retail Price, \$6.50.

Auto-Spray No. 1B, Brass Reservoir, Auto-Pop, List Price, \$8.50, Retail Price, \$7.50.

Auto-Spray No. 1C, Galvanized Reservoir, Stop Cock, List Price, \$5.00, Retail Price, \$4.50.

Auto-Spray No. 1D, Galvanized Reservoir, Auto-Pop, List price \$6.00. Retail price \$5.50.

Extension Pipe, brass, two-foot length, 50c.; Galvanized, 40c.



PATENTED.

Special Prices for Cash.

“THE AUTO-POP” and  
“ANTI-CHOKE” NOZZLE

The "Auto-Pop" is an automatic valve which is closed by the air pressure used to operate the "Auto-Spray."

In operation a lever is moved by simply closing the hand, thus opening the valve and allowing an instantaneous discharge of spray.

By releasing the lever it closes itself automatically; hence the spray is in perfect control.

The value of the "Auto-Pop" is most apparent in spraying potatoes, tobacco, cotton, small fruits, etc., where only enough solution is used to spray each plant or vine.

\$1.25.

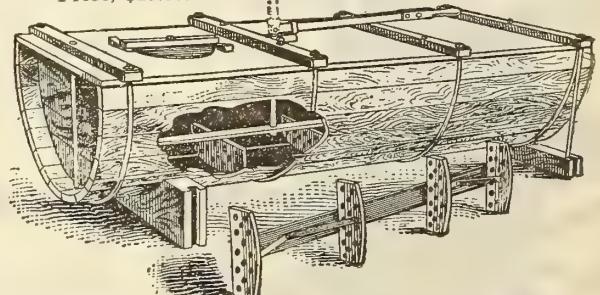
SPRAYING  
TANKS

Tank, with Bolster and Agitator, \$20.00.

Same, without Agitator, Price, \$18.00.

The illustration shows our half-round Tank, which is especially adapted for use with our MON-ARCH, Fig. 1318, Pump.

The staves are made of 1 1/2-inch pine, strongly gripped with steel and hard wood. The joints are machine made. The tank weighs about 200 lbs., is 8 feet long 3 feet wide and holds 8 bbls. of liquid. Tanks are furnished with or without Agitator.



## RUBBER HOSE FOR SPRAY PUMPS

The great trouble with Spray Hose has been the liability to wear out from friction caused by dragging on the ground and around the trees.

This has now been obviated somewhat by having our No. 2 Hose made with one of the plies on the outside and three on the inside. Per foot.

3/8-inch tubing..... 8c. 1/2-in. Spray, No. 2, 4-ply... 20c.

1/2-inch Oriole..... 10c. 1-inch Baltimore..... 20c.

1/2-inch Spray, No. 1.... 15c. 2-inch wire-lined suction... 40c.

## Watson High Pressure 4-Row Potato Sprayer

Entirely automatic, with Agitator and Brushes which Stir the Liquid and Keep the Suction Strainers Clean

FIG. 111.

Fitted with thills for one horse; tank holds 60 gallons.

Double-cylinder pump, each cylinder  $2\frac{1}{2} \times 8$  inches; separate suction pipes and all working parts are made of brass. No leather valves.

The best automatic mechanical agitator fitted with automatic brushes to keep suction strainers clean, insuring a steady and continuous supply, in thorough solution and without clogging.

Wheels 50 inches in diameter, adjustable on the axle for rows planted  $2\frac{1}{2}$  to 3 feet apart; 3-inch tire.

Axle 1 7-16 inch turned steel; 3 babbitt boxes, one at the center of the axle to prevent springing.

Pressure adjustable, 50 to 100 pounds, at the will of the operator by the use of a back-pressure safety-valve, which will enable the pressure to be gotten up and the mixture thoroughly stirred before commencing to spray.

A vertical adjustment of pipes and nozzles to allow a privilege of 12 inches up or down; extreme height 40 inches from the ground.

Nozzles and pipes as shown are in position for spraying four rows of potatoes when the tops are small; may be removed for passing through gates by loosening two thumb screws.

Will spray orchards, shrubs or any crop where it can be moved about and may be readily converted into a hand sprayer.

The Watson will spray from 30 to 40 acres of potatoes, cotton, tobacco or vegetables for a day's work, and without waste of liquid.

Price, complete as shown. .... \$65.00

For horizontal pipe shifter, add \$3.00 to above price.

This machine can be furnished with 100-gallon tank at additional cost. It can also be furnished with one or two leads of hose for orchard spraying.

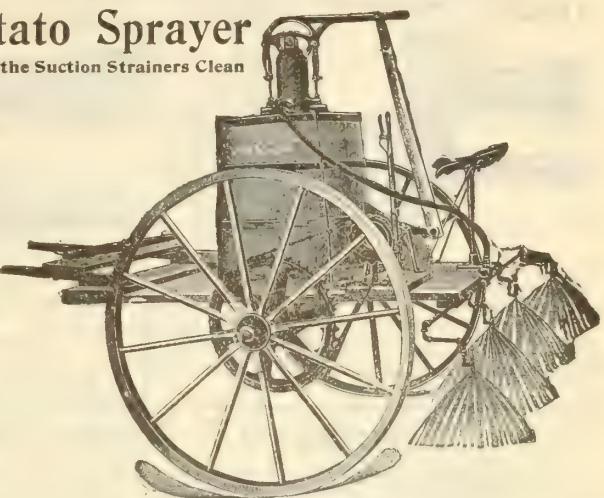
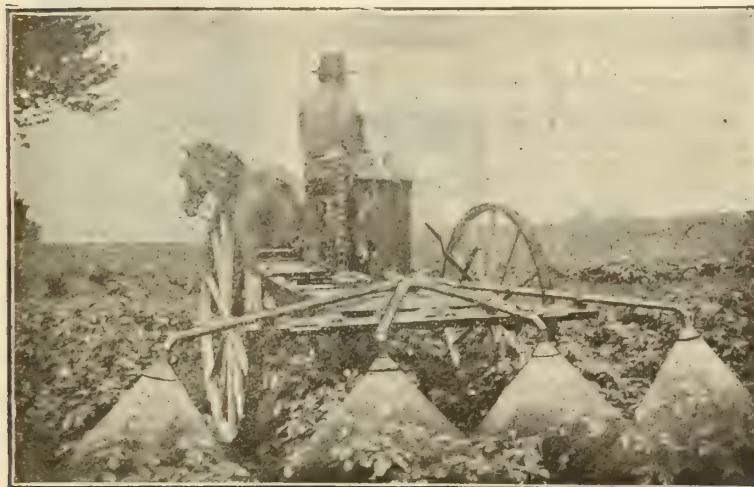


FIG. 111.

## The "BEETLE" Four Row Horse Power Potato Duster.



Constructed on the same principal as the Champion and Little Giant Dusters that have been in such general use for over ten years, and proved a success.

Four rows of potato vines may be dusted as fast as a horse walks, covering from twenty to forty acres of potatoes in a day with one horse, according to conditions of land and weather.

By the wet process it would require from six to twelve barrels of water and two horses to cover the same acreage, besides the double time; in other words, fifty gallons of water is required for three acres, but only Three Pounds of Paris Green when applied dry.

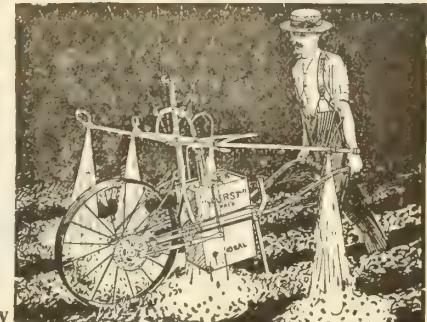
It saves time, labor and material, and does thorough work. The dust is blown down through the vines, so as to reach not only the upper part of the foliage, but all parts. The "BEETLE" Duster is always ready for use, and can be operated by an inexperienced person with good results.

The reservoir holds about 30 lbs. of Lime or 50 lbs. Green. The tubes and nozzles may be raised or lowered at will, so as to dust close to the vines. The fan and agitator are controlled by a clutch. The tubes and cart wheels are adjustable for wide or narrow rows. The gauge shows how far apart the slots are open, without looking inside, and is opened or closed by means of a thumb screw. The working parts should be kept well oiled.

Price. .... \$60.00

## Hurst's Combination Potato Sprayer

Adapted  
to  
Potatoes  
and  
Truck,  
Small  
Fruits  
and  
Shrubby



This machine sprays any truck or potatoes (four rows at a time)—develops high pressure—delivers a fog-like spray which saves solution and envelops the foliage in a mist, which penetrates to every part—sprays an acre or more without refilling.

For high tree, potato, orchard, vineyard, melon, strawberry and all kinds of truck, spraying rows four at a time—covers ground very fast—an acre in half an hour, or 20 acres per day.

**Vermorel anti-clog nozzles.** Adjustable to spray any width of rows, throw in any angle to spray anything. All solid brass; also connections, etc.

**The pump** is our latest improved; has great power (having extra air-chamber) yet works easy. Solid brass parts, including cylinder, unions, valve seats, etc.—means strength and durability.

**Pushes easy.** Is no mankiller, having 3-inch tire wheels (instead of two inches); pushes with reasonable ease even in loosest or very sandy soil; as easy to push as hand garden tools or wheelbarrow seeder

**Material.**—This machine being made largely of steel and brass, is light, strong and durable. Frame is of special steel tubing, very light and strong. Tanks of heavy galvanized steel especially made for this purpose; also heavily coated inside with anti-rust enamel. No bulky wooden tank to dry in and leak. Solid brass stop-cock, which enables the operator to shut off spray at will without throwing machine out of gear.

**Spray arms.**—Adjustable—can be raised or lowered according to height of article to be sprayed, for vineyards, bushes, tobacco, etc.; can simply swing or raise arms to suitable height on spray-arm bracket. (See dotted lines on cut.)

**Adjustable slide** on spray arms allows the adjustability of the nozzles to various widths and heights of rows, and by adjusting or turning the nozzles outward (horizontally with spray arms) can reach rows at a distance of about 15 feet apart.

Price. .... \$27.50

## GOULD'S "MISTRY" NOZZLE

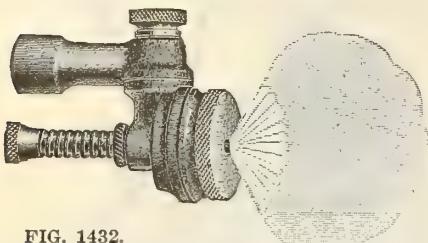


FIG. 1432.

**Fig. 1432** is our large "Mistry" Nozzle, which produces a greater area of spray than two Fig. 55. It has an adjustment which allows the spray to be thrown at any desired angle. In this Nozzle you have the effect of two good Nozzles with only one to attend to—a very good feature.

Price, \$1.50.

## VERMOREL NOZZLE

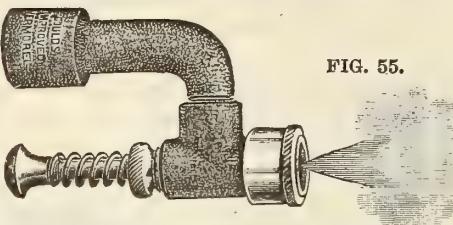


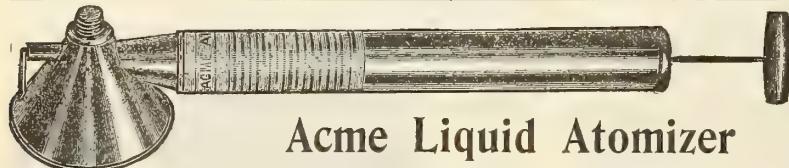
FIG. 55.

**EACH WITH DEGORGER.**  
One Discharge—List price, \$1.00; Retail price, 75c.  
Two Discharge—List price, \$2.00; Retail price, \$1.50.  
Three Discharge—List price, \$2.75; Retail price, \$2.00.

**"Masson"** Spray Nozzle

**Fig. 62, "Masson" Spray Nozzle**, we offer where extremely fine spray is desired. It may be briefly described as an all-bronze plug cock, constructed to give a fan-shaped discharge at an angle. By simply turning the small "T" handle, the discharge may be graduated from a mist-like spray (consuming only one gallon of liquid in fifteen minutes) to as coarse a spray as may be desired to use. With this class of nozzles, the discharge can be instantly shut off, when not required, thus preventing waste of liquid and loss of labor. It may be cleaned by turning plug across the opening.

List price, \$1.00. Retail price, 75c.



## Acme Liquid Atomizer

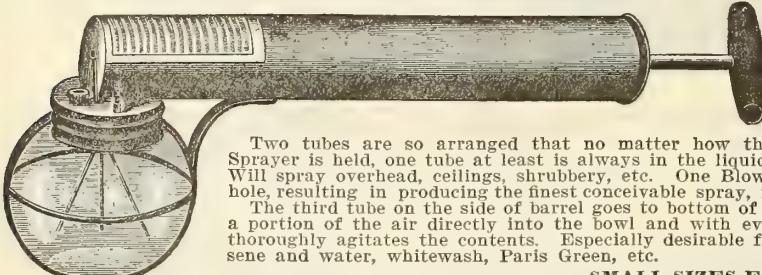
For spraying Paris Green and other insecticides on potato plants, shrubs, small trees, house plants, live stock and poultry. Applies the finest spray on desired objects and exterminates any kind of insect life. Quite a number are now in use for this purpose with the most satisfactory results.

Prices.—Tin Atomizers, 50c.; Galvanized Tank, 55c.; Brass Tank, 75c.

## No. 1 Can Sprayer, 50c.

One-half teaspoonful of Paris Green and one filling of water is sufficient to destroy all the bugs on 1,300 hills of potatoes.

## Tennant Atomizer, with Mixer, \$1.00



Two tubes are so arranged that no matter how the Sprayer is held, one tube at least is always in the liquid. Will spray overhead, ceilings, shrubbery, etc. One Blow-hole, resulting in producing the finest conceivable spray, necessary for disinfecting.

The third tube on the side of barrel goes to bottom of receptacle; this conducts a portion of the air directly into the bowl and with every stroke of the handle thoroughly agitates the contents. Especially desirable for using emulsions, kerosene and water, Paris Green, etc.

## SMALL SIZES FOR HOUSE USE.

Holds about two ounces of liquid; easily filled. Designed for using disinfectants, blowing powders, washing off plants, sprinkling clothes, spraying telephone mouth pieces, etc. Also for exterminating bedbugs, flies, moths, roaches, mosquitoes, etc.

Price.....50c.

The Acme Powder Gun is the simplest tool ever made for applying poison to growing crops. It is entirely independent of water or plaster. No poison is left about the fields to kill stock. It requires no base of supplies; all you need carry is a can of dry insecticide and the gun. Without stooping—the elbow does it—it applies any powdered poison on any plant in any desired quantity any time of the day. The elbow may be detached if desired. This tool is well made of the best materials. The bellows sides are painted a bright vermillion, and the handles finished bright. The leather is a fine russet. We also furnish a spreader for distributing the blast.

Price.....75c.

## BORDEAUX NOZZLE

White-washing and painting, as well as for other spraying.

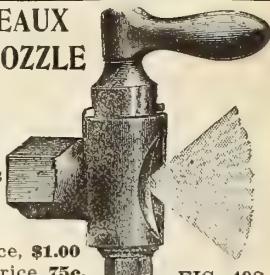
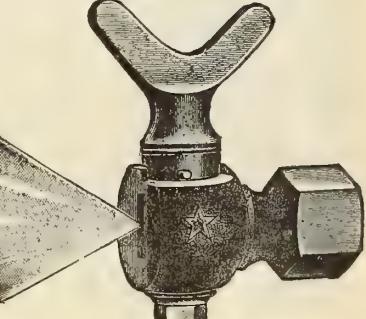
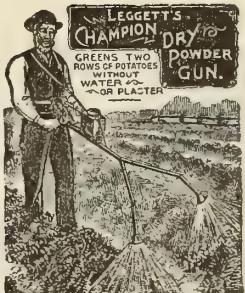
List price, \$1.00  
Retail price, 75c.

FIG. 498



## ACME Plaster Sifter



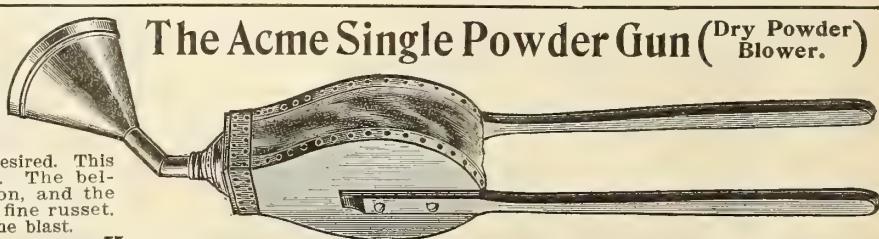
For farm, garden, vineyard, tobacco fields, etc. Adjustable to any width of row. Many thousands in use. Distributes Paris Green, London Purple, Hellebore, Sulphur, Lime, Dry Bordeaux Mixture, Dry Bordeax Mixture and Paris Green Compound, Spanish Pink, Pyrethrum Powder, etc.

This Machine keeps the Poison at a Safe Distance from the Operator.

Dusts potato vines as fast as you walk, two rows at a time. Each machine is furnished with two tubes, five nozzles and strap.

Anyone can use it. Weights, cased for shipping, 14 pounds.

Price.....\$7.50.



SPRAY WITH KIL-O-SCALE

## KIL-O-SCALE

A SCIENTIFIC CHEMICAL COMPOUND FOR  
EXTERMINATING THE SAN JOSE SCALE.

## READ THESE TESTIMONIALS

Extracts from report of the Entomological Department of New Jersey Agr. Exp. Station by Prof. John B. Smith for 1905:

"**KIL-O-SCALE** is sold by Griffith & Turner Co., of Baltimore, Md., and was up to the present season the best, as it was the first combination regularly upon the market. But even this is better now than it was when first put upon the market and the emulsion is more stable. It differs from the others in containing an appreciable amount of free sulphur, and it has proved itself a safe and reliable insecticide."

"In the Howell orchard the trees were perhaps a little worse infected, but these were sprayed last, with fresh material, which had not been exposed to frost and which mixed without a trace of free oil at the surface. Here the results are almost as good as in the Marsh orchard, though the infestation was not nearly so bad. In any event there were nearly 1,000 peach trees treated in late October or late March and no appearance on any of injury to trees or fruit set, while the scale was as nearly wiped out as any single application can ever hope to accomplish it."

"Five barrels of diluted mixture were used in a neighboring orchard of apple and peach trees in comparison with lime, sulphur and salt, and in midsummer the oil proved to have been much the more effective."

"This **KIL-O-SCALE** will kill the pernicious scale at all periods of the year diluted with 20 parts of water, though most certainly through the fall; provided always of course that the mixture actually reaches the insect aimed at."

Dr. Smith goes on to say he made a very interesting observation in an application of **KIL-O-SCALE** made by a local nurseryman. "It proved to be an excellent illustration of how spraying is often done, and I advised the owner at once that he must not look for satisfactory results. The object seemed to be to get over the greatest number of trees in the least possible time, and whenever the spraying rod had been over as many movements as might be reasonably required for a covering, the work was considered finished. Such work is bound to be unsuccessful, no matter what the material applied, and it is regretfully concluded that much of the work done is of the same general character."

## FATAL TO THE SCALE

"I saw your catalogue and noticed your ad. on **KIL-O-SCALE** and thought at once that it was what I had been looking for. I sprayed all my trees in March, and I don't think there is any scale left. The trees are looking fine and have taken on new life."

"My own fruit trees will be a great recommendation, one of the best. I think Kil-o-Scale is as fatal to the scale as Paris Green is to the potato bug."

"If we spray thoroughly at 1 to 25 it will kill every scale that it reaches."

A. L. STIVELY.

We recommend 1 to 20.

Griffith & Turner Co.

**KIL-O-SCALE** has given splendid results so far, and think has gotten the better of the scale. I used it on an orchard badly infested and have a good crop of fruit.

A. R. ARNOLD."

This letter is from one of our large fruit growers.

## KIL-O-SCALE Still Forging Ahead

**KIL-O-SCALE** was in such great demand last season that our factory was taxed to its utmost capacity, but now we are fully prepared to promptly fill all wants.

In consequence of our increased facilities for manufacturing, we are enabled to somewhat lessen the cost of manufacturing, and in consequence we give the consumer the benefit by lessening the price to him.

At the same time **KIL-O-SCALE** is the same as when first made. We cannot IMPROVE on its EFFICIENCY and WILL NOT DECREASE THE QUALITY.

## DESCRIPTIVE

**KIL-O-SCALE** is a scientific Chemical Compound; is a perfect remedy against San Jose Scale; dissolves the wax which cements the scale or protecting cover of the insect to the tree; contracts the scale or coating covering the insect, thus exposing the insect itself to the direct action of the insecticide; forms after spraying a coating which prevents any young scale from settling before they die from exposure; fills the respiratory and digestive organs of the insect, thus destroying life; after applying to the tree, generates in drying a poisonous gas, absolutely destructive of insect life; is made and shipped only in concentrated form, and will mix with cold water in any proportion; is economical; is easy to apply; is not a mixture of chemicals, but a chemical product, resulting from a definite chemical process; **KIL-O-SCALE** is not a "Quack Remedy," but is prepared for the specific purpose of killing the San Jose Scale; will not clog the spray pump or nozzle; may be used in the late fall and during the winter and early spring, up until the buds swell. Will not injure the trees.

## DIRECTIONS

**KIL-O-SCALE** is a concentrated LIQUID and is shipped in barrels, kegs and cans.

To one gallon of **KIL-O-SCALE** add 20 gallons of cold water and stir. It is then ready to be applied to the trees.

As **KIL-O-SCALE** will congeal in Cold Weather, Be Sure to Stir Well before Mixing With Water.

Pint Cans, each.....	\$ .30
Quart Cans, per quart.....	.50
Half Gallon Cans.....	.75
One Gallon Cans.....	1.25
Two Gallon Cans.....	2.25
Five Gallon Cans.....	5.00
Ten Gallon Cans.....	10.00

## BARRELS AND HALF BARRELS, PER GALLON, 85c.

## CONSIDERS IT THE BEST INSECTICIDE

"It gives me pleasure to state that I consider **KIL-O-SCALE** the best insecticide I have ever used for the San Jose scale. It is very easy to apply and very effectual and does not injure the trees in any way. In fact, I believe it is beneficial to them, and I certainly would not be without it if the price was twice as much."

When I commenced to use it two years ago some of my trees were in very poor condition, but now they are vigorous and look fine. I would be very glad to show you the results if you would call on me."

WILLIAM SINCOTT,  
Gardener to Mrs. William Arnold.

M. S. Secord, Supt. to A. A. Houseman, says he has never seen anything act on trees like Kil-o-Scale. It does its work thoroughly.

John Williams, head gardener, E. Hawley, says it is a fine thing and will want more in the fall.

John Tobin, head gardener, Edwin Thorn, says it is a fine thing. Nothing better than Kil-o-Scale.

P. J. Premm, Supt. W. K. Vanderbilt, says he is well satisfied.

Chas. Dumper, head gardener, C. L. Lawrence, thinks it is better than any other.

James Scott, head gardener, Mr. Johnson, says it has done fine work for him.

## FLOWERS OF SULPHUR

Pound, 10c.	Five pounds, 40c.	Ten pounds, 65c.
N. B.—If by mail, add 15c. per pound for postage.		
50 pounds.....		5½c.
100 pounds.....		4½c.
Barrels, 150 pounds.....	Prices subject to change without notice.	
	3c. net.	

## FLOUR OF SULPHUR

Barrels of 250 pounds.....	2¾c. Ib.
Per 100 pounds.....	4c. Ib.
Per 50 pounds.....	5c. Ib.
Per 10 pounds.....	6c. Ib.
Per 5 pounds.....	8c. Ib.

## CAUSTIC SODA

25 and 50 pound cans, per pound.....	8c.
5 and 10 pound cans, per pound.....	10c.

WRITE US FOR THE ADDRESS OF ANY OF OUR REFERENCES.

# G&T

## KIL-WEED

A highly concentrated liquid, free from odor, for the removal of all weeds, grass, vines, bushes, moss, and other vegetable growths from paths, roadways, gutters, streets, etc. A scientific preparation that has been carefully made and thoroughly tested; can absolutely be depended upon

to do what we claim. Mixed in the proportion of one gallon Kil-Weed to 50 gallons of water, will make a strong solution that will remove grass and weeds readily by applying with a sprinkling can or cart, enabling one man to accomplish as much in this manner as would be done by five or six men removing them by hand.

Quart Cans, each..... \$ .35 5-Gallon Cans, each.... \$ 4.00  
Half Gallon Cans, each. .60 10 Gallon Cans, each.... 7.50  
1 Gallon Cans, each.... 1.00 Bbls. (45 gals.), per gal. .65

# G&T

## Bordeaux Mixture

LIQUID AND DRY.

A valuable and indispensable fungicide for grape-growers, thereby insuring larger crops and finer grapes, and preventing failure. A sure cure and preventative for black rot, mildew and rust. Also of great value for other plants, with kindred diseases. Per quart, 40c. Per gallon can, \$1.10. By express or freight only. Mix one part of this to 50 parts of water.

### BORDEAUX MIXTURE (POWDER)

Ready for use by simply adding water. Price: per pound box, 15c.; makes five gallons of spray. Five-pound box, 60c.; makes 25 gallons of spray.

# G&T

## Kerosene Emulsion

(LIQUID.)

Ready for use by simply adding water, 25 to 50 parts to one. Quart, 40c. Gallon, \$1.10. Five gallons, \$4.50. This is strictly an insecticide for plant lice of all kinds, rose bugs, cabbage bugs, melon insects, fowl, human and animal lice, caterpillars, tobacco flies, peach lice, red spiders, green fly and all sucking insects.

# ANTISEPTIC LICE FLEA POWDERS

G. & T. ANTISEPTIC LICE AND FLEA POWDER is harmless to human or animal life. It is, however,

### SURE DEATH TO LICE AND VERMIN

of all kinds. It is particularly adapted for use on poultry, where its antiseptic properties allay all irritation or inflammation of the skin caused by lice or mites, thus keeping the stock in full health and vigor.

Hens subjected to the incessant irritation of lice or vermin necessarily lose vitality, and thus become weak and fall an easy prey to disease, preventing laying and also incapacitating them for sitting.

This powder is also a general disinfectant, and will purify the premises, destroying germs and all putrefying gases. 1-pound cartons, 25c. 5-pound cartons, 75c.

### FOR DOGS, HOGS AND SHEEP.

After a number of exhaustive experiments we confidently place the G. & T. Mange Cure on the market. If followed strictly in accordance with the directions, it will positively cure the worst case of mange in a few days.

After the first application the animal will cease rubbing or scratching, and even though the hair or wool has dropped out, it will so tone and reinvigorate the skin that in an incredibly

# KAN-I-NOID

# G&T

## Mange - Cura

short time it will start growing again.

It is healing, purifying, antiseptic and disinfectant. Perfectly soluble in water.

Put up in tins. Price: Qt., 60c.  $\frac{1}{2}$  Gal., \$1.00. Gal., \$1.50.

# G&T

## KIL-WORM

For Use on Golf and Cricket Grounds, Parks, Cemeteries, etc. KIL-WORM kills Worms, Ants, Snails, etc. Causes the insects to come to the surface to die.

One Gallon Kil-Worm makes fifty gallons of liquid.

In order to produce an insecticide that will effectually destroy these pestiferous insects and at the same time not injure grass or plants is the result of much study, and is not a hastily compounded concoction, just gotten up to sell. All we ask is a trial.

### PRICES.

1 Qt. Bottle, 65c. Half Gal. Bottle, \$1.25. 1 Gal. Jug, \$2.00.  
5 Gal. Jug, \$9.00. Bbls. (45 gals.), per gal., \$1.75.

Full Directions with Every Container.

# G&T

## Arsenate of Lead

Recommended by the United States Agricultural Department and the State Experiment Stations as an insecticide of great value, and equally as destructive as Paris Green. The advantages over Paris Green are its cheapness; no burning or caustic ef-

fects; easier to dissolve; more adhesive, and lasts longer. The expense of land plaster or gypsum is done away with. Apply 2 to 5 pounds to 100 gallons of cold water and spray. Put up in packages of 1, 5 and 10 pounds.

The great adhesive qualities of Arsenate of Lead make it superior to Paris Green. One application sufficient, when three or more applications of Paris Green are required.

It is the best insecticide for potato bugs, codling moth, canker worm, rose bugs, grape worm, cucumbers and melon beetle; in short, the best for all biting insects. Price, one pound, 25c. Two pounds, 50c. Five pounds, \$1.00.

Arsenate of Lead with Bordeaux Mixture is preferred to Paris Green.



**FOR CHICKENS.** — This Roup Cure is guaranteed to reduce Canker and Diphtheritic Roup where it is used according to directions on every package, except in cases where the fowl is in the last and incurable stages of the disease.

Our Kur-Roup is put up especially for us from a scientific remedy, in which is combined a strong tonic and blood purifier, building up the system, dispersing the disease.

50c. Per Package, Postpaid

# G&T

## VERMINOID LICE EXTERMINATOR

Verminoid, the Great Antiseptic, Disinfectant, Lice Killer and Cholera Preventive, is specially adapted for uses in poultry houses, sinks, cellars, drains, cesspools, stables, water closets, etc. For general use as a disinfectant or for killing vermin in chicken houses there is nothing on the market that can excel it.

Verminoid, mixed with water or whitewash (see directions on package), and sprayed on the inside of the houses, the roost and nests, will keep the premises clean and pure and will absolutely destroy all vermin.

**CAUTION.** — The application should be made in the morning after the fowls leave their roosts. Directions on each package. For a contact louse remedy use our Antiseptic Powder described above.

Put up in tins. Price: Qt., 60c.  $\frac{1}{2}$  Gal., \$1.00. 1 Gal., \$1.50.

### TIC-KIL.

A cold-water Sheep dip. Antiseptic; Disinfectant; Non-Corrosive; Detergent.

Tic-Kil is a highly-concentrated solution, perfectly soluble in water, which makes it very cheap and convenient. A great remedy for many skin diseases and parasitic troubles. Very purifying, and acts as a deodorizer also. Directions for use on every package.

**PRICE:** Quart, 60c.

$\frac{1}{2}$  Gallon, \$1.00.

Gallon, \$1.50.

5 Gallons, \$6.00.

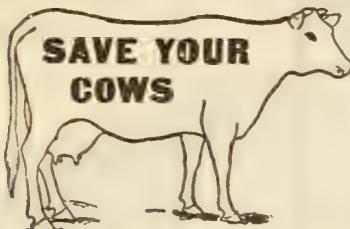
10 Gallons, \$10.50.

Special prices in brls.

# Tic-Kil

# G&T

## SHEEP DIP



BY USING  
**KOW-KURE**  
THE GREAT COW MEDICINE

Watch every cow and at the first sign of disorder in appetite, digestion or flow of milk, give a dose of **KOW-KURE**. Carefully follow the directions as given on the box and that cow will get well.

**KOW-KURE** is in powder form, to be given in regular feed. It cures abortion, barrenness and scours, removes retained afterbirth and caked udder, strengthens the appetite, purifies the blood, vitalizes the nerves and prevents disease. It increases the milk. It is a medicine for cows only.

Prices, 50c. and \$1.00.

**ARABIAN SCRATCHES AND GALL CURE**

Is without an equal. It cures every horse every time.  
3 Ounces, 25c. 9 Ounces, 50c.



Dr. Daniels.

## Veterinary Remedies

**Dr. A. C. Daniels.**

Colic Cure, \$1.00. Cough, Cold and Fever Drops, 50c. Horse Renovator, 50c. Wonder Worker Oster-Coccus (Nerve and Muscle Liniment), 25c. and 50c. Hoof Grower and Softener, 50c. Gall-Cura, 25c.



Dr. Lesure.

## Dr. J. G. Lesure's Warranted Veterinary Medicines

Colic Cure, \$1.00. Fever Drops, 50c., \$1. Cough and Tonic Drops, 50c., \$1. Horse Renovator, 50c., \$1. Worm Annihilator, 50c. Electric Hoof Ointment, 50c. Total Eclipse Spavin Cure, 50c. All-Healing Balm, 50c. Gall Cure, 25c., 50c. Lesure's Liniment, 50c.

Nice cabinet furnished with an assorted order of \$20.00.

PRATT'S ANIMAL REGULATOR.—25c. package.

## G. & T. Co.'s Kur-Roup For Chickens

Our Kur-Roup is put up especially for us from a scientific remedy, in which is combined a strong tonic and blood purifier, building up the system, dispersing the disease. We do not hesitate to recommend it for the sure cure of Roup in all its stages. Price 50c. per Package, Postpaid.

**LEE'S GERMOZONE.**—For Roup and all Poultry Diseases. Tablets to dissolve in water. 50c. per box.

**LEE'S HOG REMEDY.**—Prevents and cures Hog Cholera. 25-pound pail, \$2.00.

**HAVEN'S ROUP PILLS.**—For the cure of Roup, Catarrh, Colds, etc. Box, 25c.

**RUST'S CONDITION POWDERS.**—The only positive preventive and cure for Gapes and Poultry Cholera, and a most excellent medicine for young turkeys that have been exposed to the weather; also an excellent medicine for horses, cattle, sheep and hogs. 13-oz. pkg., 25c.; by mail, 40c. 32-oz. pkg., 50c.; 5-lb. box, \$1.00.

## BAG BALM

For all the diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as **BAG BALM**. It is a soothing, penetrating ointment, especially adapted for all those serious and annoying troubles known as caked bag, cow pox, chapped, cracked and sore teats, bunches, chafing and inflammation of all kinds. **BAG BALM** penetrates through the skin and inner tissues at once, reaching the glands, where it reduces the inflammation, breaks up the bunches, and spreads its cooling, softening effect to all the affected parts. This remedy has met with unequalled success and is found on the most progressive dairy farms in the country. Price, 50 cents.

## HORSE TONIC

**AMERICAN HORSE TONIC** is for horses only.

This tonic is a specific for horses, an actual medicine that goes to the root of all horse ailments and removes the cause of the trouble.

A few doses will send a dull, listless horse on its way rejoicing.

Its curative power is wonderful. **AMERICAN HORSE TONIC** is the best remedy known for worms, stoppage of water, all bowel complaints, inflammation of the lungs, recent founders, distemper, coughs, colds and swelling of the glands of the throat. Per box, 50 cents.

## COWS' RELIEF

Cures baked bags, heals sore teats, cures spider in the teat. The original.	\$ .50
Cows' Relief, ½-pound box.....	1.00
Cows' Relief, 1½-pound box.....	

## HORSE COMFORT

**The Most Remarkable Remedy Ever Compounded for Healing Cuts and Open Sores of Every Kind.**—**HORSE COMFORT** is a liquid preparation which is unequalled in its power to quickly cure all kinds of open sores or abrasions of the skin. It is used by simply wetting the sore spot. No bandages or filthy rags, no rubbing or heating it in. Simply wet the spot and the cure begins.

Price per bottle, 25c. and 50c.

Kill the  
Germs before  
they have  
time to do any  
harm

THE NEW  
SCIENTIFIC  
CURE AND  
PREVENTIVE  
OF



## HOG CHOLERA

**ANTIKOL** is specifically designed to prevent and cure Hog Cholera. It cannot be of benefit except in cases where a disease is due to germs introduced into the intestinal tract. It is fatal to the hog cholera germ and yet absolutely harmless to the hog when used in accordance with directions. It absolutely destroys the cause of cholera in a few hours, and consequently, when properly used, is a perfect preventive. If the disease has already gained access to the herd, "**ANTIKOL**" will cure the germs sure to be present in the food and drink of the hog, as well as effectively destroy the disease-producing bacteria in the intestines of the animal.

Use "**ANTIKOL**" freely the year around in all the food and drink to which the hogs have access, and you can be sure they will never have the cholera. Even though the hogs on all the adjoining farms are dying from the disease, your hogs will have been insured against an attack of cholera. Can you afford to take the risk?

## IDEAL TONIC

was originally prepared for hogs which had been cured of cholera by "**ANTIKOL**." The delicate condition of the stomach and intestines of these animals naturally makes it necessary that a strictly high-grade tonic be used in order to assist the hogs to gain as rapidly as possible.

Can be used with equally good results on all kinds of stock, horses, poultry, etc.

**PRICE LIST.**—"**ANTIKOL**," \$1.00 and \$6.00 packages. The \$6.00 size contains 7½ times more than the \$1.00 size. \$1.00 size postpaid, \$1.18.

"**Ideal Tonic**," 50c. and \$1.50 size. \$1.50 size contains 4 times more than the 50-cent size.



Pat. March 16 and Nov. 9, 1897.

Pat. in Canada Nov. 2, 1897,  
and Jan. 25, 1900.

#### COPPER SULPHATE OR BLUESTONE.

Prices on this article are constantly varying.  
Write for prices.

#### GOOD'S CAUSTIC POTASH WHALE OIL SOAP

Is considered by all who have used it the best Whale Oil Soap on the market. It dissolves readily in cold or hot water and in any desired proportion. Remains in solution and does not require constant stirring. No sediment to clog the nozzle. Apply for green fly or Aphis, one-half ounce to gallon of water; one ounce for mealy bugs and two ounces for most greenhouse scale. Outside purposes double the strength for same kind of pest.

For San Jose Scale, two pounds to the gallon on dormant trees. For trees in leaf, four ounces to the gallon is a safe spray. Price, one-half pound, 10c.; one pound, 15c.; two pounds, 25c.; five pounds, 50c.; ten pounds, \$1.00. Special in large quantities.

#### LEMON OIL.

Perfectly safe and harmless to the tenderest foliage and roots. It effectually destroys mealy bugs by syringing or dipping. It also destroys scale, thrip, red spider, black and green fly, caterpillar, American blight, mildew, etc. Dilute with 50 parts water. One-half pint, 25c.; pint, 40c.; quart, 75c.; one-half gallon, \$1.25; gallon, \$2.00.

#### PARIS GREEN.

One-quarter pound, 10c.; pound, 30c.; by mail, 45c.

#### PURE WHITE HELLEBORE.

The cheapest and best preparation for destroying rose slugs, currant worms, etc. One-quarter pound, 10c.; pound, 30c. By mail, 45c. per pound.

#### HAMMOND SLUG SHOT.

A non-poisonous powder, and a very popular insecticide; it requires no further mixing or preparation; easily applied, and not injurious or dangerous to animals, the person applying it, or fruits and vegetables treated. Very effectual in destroying potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. Ten to 40 pounds is sufficient for an acre. Five-pound packages, 25c.; ten-pound packages, 45c.; twenty-five pounds, \$1.00.

#### DEATH TO LICE

##### A DISINFECTANT INSECT POWDER.

This powder is unrivaled as an insecticide; handy to use, cheap to buy and does the work quick.

15 oz. package... \$0.25	Postpaid .... \$0.40
48 oz. package... .50	Postpaid .... 1.00
100 oz. package... 1.00	By express...

#### LEE'S LICE KILLER

Is easily applied to roost poles and about the poultry-house, and kills all vermin, mites, bedbugs, etc., that have their lodgings in the cracks and crevices.

Price: Qt., 35c.; 1/2 Gal., 60c.; Gal., \$1.00; 5 Gals., \$4.00.

#### LEE'S GEMOZONE (Tablets).

For roup, cholera and other poultry diseases, also skin, scalp and mucous surfaces. Specific for eruptions, inflammations, discharges, sores, wounds, etc. **Gemozone is the great remedy.** Directions with every package. Price per pkg., 50c.

#### ASBESTOS TORCH.

An excellent device for burning caterpillar nests from trees. Price, 40c.



**BUG DEATH** kills Potato, Squash and Cucumber Bugs, Currant and Tomato Worms, and all bugs and worms that chew the leaves of plants; non-poisonous.

##### Directions for Applying Dry.

For potato and other vines which require a top application, apply dry with shaker or Sifter, at the rate of 12½ lbs. or more per acre to an application, according to size and condition of the vines.

1-pound package.....	\$0.15
3-pound package.....	.35
5-pound package.....	.50
12½-pound package....	1.00
100 pounds .....	7.50

Add 17c. per lb. for postage.

##### Directions for Using in Water.

Add 12½ lbs. to 80 gallons of water, and mix thoroughly.

#### PERFECTION SHAKER, 65c.

For applying Bug Death to potato vines.

#### KNO-BUG SIFTERS, 50c.

## KILLS

### Sulpho-Tobacco Soap

## INSECTS

### A Wonderful Inexpensive Insecticide

Destroys cabbage, squash and potato bugs, currant worms, lice, green fly, mealy bug, red spider, etc. Sure death to all plant insects indoors and out of doors. Of special value for spraying shrubs, fruit trees and vines. Produces luxuriant roses if bushes are sprayed liberally before blooming time.

**3-oz. Cake** makes 1½ gallons prepared solution. 10 cents.

Mailed, postpaid, for 13 cents.

**8-oz. Cake** makes 4 gallons prepared solution. 20 cents.

Mailed, postpaid, for 28 cents.

**10-lb. Cake** makes 80 gallons prepared solution. By express, \$3.00.

Free with every order, "The Window Garden," a booklet by Eben E. Rexford, giving valuable information on the cultivation of plants and the extermination of insects.

#### PERSIAN INSECT POWDER, OR BUHACH.

Price: ¼ pound, 15c.; pound, 40c., or by mail, 55c.

**DRY.**—Blow on with a bellows or gun.

**SOLUTION.**—Dissolve one ounce to three gallons of water, and apply with syringe or pump.

#### NIKOTEEN.

Is the most powerful known insecticide, and will be found more economical and convenient than weak tobacco extracts.

Price: Pint cans, \$1.50; 5 cans, \$7.00.

**VAPORIZING PANS** (for above)..... \$0.50

**IRON** ..... .50

**3 PANS, 3 IRONS and 1 HOOK** ..... 3.00

#### APHIS PUNK (Nikoteen).

Especially designed for use in private places and in houses without convenient furnaces for heating irons necessary for vaporizing Nikoteen, or Tobacco Extract. It is very effective as an insecticide. The Punk is lighted with a match and allowed to burn, which it does without flaming, at the same time giving off dense white fumes of nikoteen that kill aphis and thrip very effectively. Per box, 60c.; per 12 boxes, \$6.50.

#### NICOTIDE.

An infallible remedy for aphis, green fly and other greenhouse vermin.

No. 1—1 pint for 32,000 cu. ft. of space. \$2.50

No. 2—½ pint for 16,000 cu. ft. of space. 1.25

No. 3—4 oz. for 8,000 cu. ft. of space. .70

Lamp for evaporating, consisting of pan, wire frame and lamp..... .50

After lamp is lit and pan containing compound is placed over it, the person should leave the house and not re-enter for at least two hours, as the lamp will die out soon after the compound has evaporated.

#### FUMIGATORS.

No. 2—Height, 16 inches. For a house 12x40 feet..... Price, \$1.75

No. 3—Height, 20 inches. For a house 15x100 feet..... Price, 2.25

#### PINNER'S TOBACCO SOAP.

Pound, 40c. By mail, 55c.

#### TOBACCO DUST, FINE.

For green and black aphis, fleas, beetles, etc. Splendid fertilizer and preventive for insects in the ground and around roots. Price: 5 pounds, 20c.; 20 pounds, 60c.; 100 pounds, \$2.00; 200 pounds, \$2.75. For insects on plants apply with powder duster or bellows. For worms or grubs in the soil apply liberally to the surface and rake in, or strew thickly in the drills before planting.

#### TOBACCO STEMS.

Indispensable for fumigating greenhouses and conservatories for the destruction of green and black aphis and other insects. 5c. a pound; large quantities, 50 pounds, 3c. a pound.

Dampen thoroughly a few hours before using, place about a half pound over a handful of shavings in a fumigator and light.

#### "THYMO-CRESOL," ENGLISH COLD-WATER SHEEP DIP.

A gallon makes a hundred gallons for most uses. A world-famous dip, and, besides, is unexcelled as an internal and external remedy for animal wounds and skin diseases, for killing animal parasites, mixing with whitewash for trees, chicken-houses, kennels, etc. Price: Pint can, 45c.; Quart can, 60c.; gallon can, \$1.75.

**SLIDING KRAUT CUTTER.****Sliding Kraut Cutter, With Two, Three, or Four Knives.**

These Kraut Cutters are constructed on the same principle, but are a decided improvement on the old style machines. Each knife is independent of the other and can be quickly adjusted to cut fine or coarse at will.

In the old-style kraut cutters the knives could rarely be adjusted just right, and if they were they probably refused to stay. These Cutters are made of heavy hardwood and are fitted with a hardwood box which runs in grooves. Knife adjustment is perfect, being controlled with  $\frac{1}{4}$ -inch round-head stove bolts.

No. 50—2 Knives, 8x26 inches.....	\$1.00
No. 55—3 Knives, 8x36 inches.....	1.25
No. 65—3 Knives, 9x30 inches.....	2.25
No. 70—3 Knives, 12x36 inches.....	3.25
No. 75—4 Knives, 12x36 inches.....	3.75

good iron boxes. Rest of machine hard wood. Will do fast work. Wheel with rough face can be furnished for a little less money. Price, \$8.00.

**Special Discount for Cash.** Can furnish with 3 knives if desired.



Thompson, Jr., No. 7  
Root Cutter.



No. 7.

This cutter is adopted especially for poultry men and farmers or for suburban residents keeping a couple of cows. Cuts roots and vegetables into fine chicken feed. Capacity, one bushel in about five minutes. Price, \$5.00.

Baltimore  
Electric Feed Cooker.

Furnace door frame, hearth and grates are of best cast iron; lining and sides of sheet steel plates; boiler is made of galvanized steel; will not rust; can also be used for scalding hogs. No. 1, 25 gallons, \$9.35. No. 2, 40 gallons, \$11.35. No. 3, 50 gallons, \$13.25.



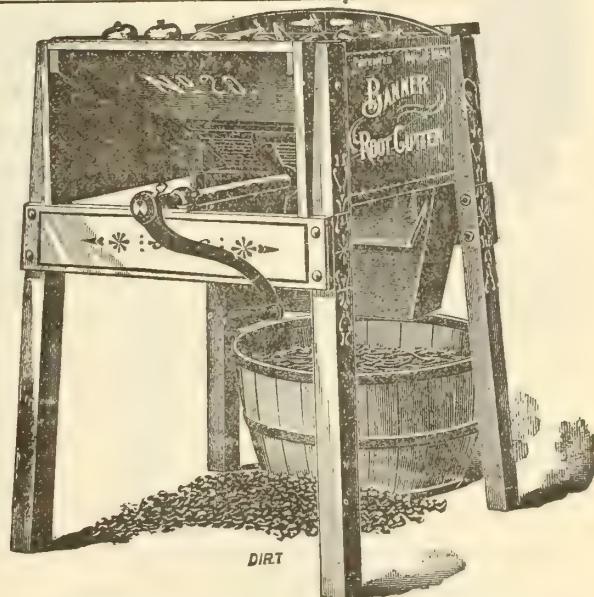
Horse Radish Grater.

With tin clad cylinder for Horse Radish. List price \$7.00. Retail \$6.25.

With steel pin cylinder for Horse Radish. List price \$8.00. Retail \$7.25.

With steel pin Cylinder for Cocoanut. List price \$9.00. Retail \$8.00.

With steel pin cylinder for Horse Radish, with legs, balance wheel, treadle and crank. List price \$14.00. Retail \$12.50.



**THE BANNER ROOT CUTTER.**

Built in Three Sizes for Both Hand and Power.

Simple in construction. Easy to operate. Has a self feeder. Separates dirt from cut feed. Cuts with a clean cut. Does not crush, grind or tear the feed.

**THE NO. 20—FOR HAND USE.**

Has a capacity of 30 to 50 bushels per hour. Retail price \$9.00. **Special Discount for Cash**

We have on market Crank Cutter, built with balance wheel, same to be of large capacity, on which we can make very low prices.

**THE NO. 16.—SMALL POWER CUTTER.**

With Fly Wheel and Band Wheel.

Supplied with crank also for hand use. Capacity by hand, 30 to 50 bushels per hour. Capacity by power, 2 to 3 bushels per minute. Our retail price \$13.00. **Special Discount for Cash**.



# BALTIMORE PUMP

With and Without Porcelain Cylinder.

PRICES OF PUMPS FITTED COMPLETE.

Depth of Well.	6x6 Unlined.		6x6 Lined.		7x7 Lined.	
	List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.
6	\$7.60	\$5.32	\$9.10	\$6.37	\$10.85	\$7.60
8	7.98	5.59	9.48	6.64	11.23	7.86
10	8.36	5.85	9.86	6.90	11.61	8.13
12	8.74	6.12	10.24	7.17	11.99	8.39
14	9.40	6.58	10.80	7.56	12.65	8.86
16	9.82	6.87	11.32	7.92	13.07	9.15
18	10.24	7.17	11.74	8.22	13.49	9.44
20	10.66	7.46	12.16	8.51	13.91	9.74
22	11.08	7.76	12.58	8.81	14.33	10.03
24			13.58	9.51	15.83	11.08
26			14.58	10.11	17.33	12.13
28			15.58	10.91	18.08	12.66
30			16.40	11.48	19.15	13.41
32			17.40	12.18	20.40	14.28
34			18.65	12.06	21.40	14.98
36			19.65	13.76	22.40	15.68
38			20.90	14.63	23.65	16.56
40			22.15	15.51	24.90	17.43
45			25.40	17.78	28.15	19.71
50			27.90	19.53	30.40	21.28

SPECIAL DISCOUNT FOR CASH.

# WOOD CHAIN PUMPS.



## Price List Baltimore Wood Pumps

AS REVISED BY

National Association of Wood Pump Manufacturers.

THIS PRICE LIST SUPERSEDES ALL HITHERTO USED.

"No. 0."—STOCK PUMPS. 7x7 Inches, 4-Inch Bore.

	Unlined.	Porc. lined.
6 feet long.	\$7.00	\$8.75
7 feet long.	7.75	9.50
8 feet long.	8.50	10.25
10 feet long.	10.00	11.75
12 feet long.	11.50	13.25
6 feet long, reamed for 6x6 extension pipe, unlined.	\$7.25.	

Less 30 per cent. Retail.

"No. 1."—THE FAVORITE HOUSE PUMPS.

6x6 Inches, 3½-Inch Bore.

	Unlined.	Porc. lined.
6 feet long.	\$5.50	\$7.00
7 feet long.	6.00	7.50
8 feet long.	6.50	8.00
10 feet long.	7.50	9.00
12 feet long.	8.50	10.00
6 feet long, reamed for 6x6 extension pipe, unlined.	\$5.50.	

Less 30 per cent. Retail.

PUMPS FOR DRIVE WELLS.

To Fit 1½, 1½ or 2 Inch Iron Pipe.

No. 1—House, 6 feet long, porcelain-lined iron cylinder.....	\$8.00
Special porcelain-lined cylinder, 5 feet wood extended entire length, 6 feet.....	7.50
Less 30 per cent. Retail.	

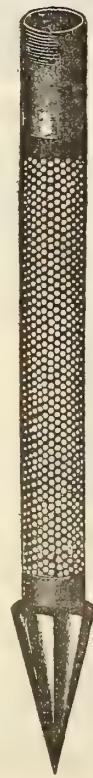
BRASS JACKET DRIVE WELL POINTS.

Numbers. of Pipe.	Diameter	Length	Length	Number	No. 60 Gauge,	Retail
	Jacket.	Pipe.	Holes.		List Price	Price
					Per Dozen.	Each.
90	1¼	18 in.	24 in.	100	\$36.00	\$0.75
94	1¼	24 in.	30 in.	130	46.00	.96
98	1¼	30 in.	36 in.	165	56.00	1.16
102	1¼	42 in.	48 in.	270	76.00	1.60
136	1½	18 in.	24 in.	120	48.00	1.00
140	1½	24 in.	30 in.	162	60.00	1.25
144	1½	30 in.	36 in.	198	72.00	1.50
148	1½	42 in.	48 in.	276	96.00	2.00

Malleable Drive Caps, Hexagon-shaped, for 1¼ Pipe, 20c.  
Malleable Drive Caps, Hexagon-shaped, for 1½ Pipe, 25c.

Plain Drive Caps, prices on application.

Write for Special cash price on Drive Well Points.



6x6 Couplings for 4x4 Tubing . . . . .	\$0.50
Buckets, 5-inch, each, No. 00 . . . . .	1.25
Buckets, 4-inch, each, No. 0 . . . . .	1.00
Buckets, 3½-inch, No. 1, each . . . . .	.80
Buckets, 3-inch, No. 2, each . . . . .	.65
Handle, any size, each . . . . .	.30
Handle Links or Knuckles . . . . .	.25
Check Valves, per dozen . . . . .	1.50
Iron Connection for drive wells, fitted for 1¼-inch and 1½-inch iron pipe . . . . .	1.00
Extra Iron Spout, with loose collar . . . . .	.40
Extra Wood Spouts, each . . . . .	.15
Extra Spout Braces, each . . . . .	.15
Extra Bands, each . . . . .	.10
Extra Ears or Brackets, Nos. 35 and 36, each . . . . .	.40
Extra Splice Straps, per pair . . . . .	.25
Extra Frost Faucets, each . . . . .	.40
Plunger Rod, per foot . . . . .	.03
Plunger Leathers, per dozen . . . . .	3.50

## Miscellaneous.

4x4 12 feet long and under, per foot . . . . .	\$0.19
4x4 over 12 feet long, per foot . . . . .	.50
6x6 extension tubing, per foot . . . . .	3.00
Cylinder Block, Porc.-Lined, 3 ft. long . . . . .	3.50
Cylinder Block, Porc.-Lined, 4 ft. long . . . . .	4.00
Cylinder Block, Porc.-Lined, 5 ft. long . . . . .	4.50
Cylinder Block, Porc.-Lined, 6 ft. long . . . . .	5.00
Cylinder Block, Porc.-Lined, 7 ft. long . . . . .	5.50
Cylinder Block, Porc.-Lined, 8 ft. long . . . . .	5.50

Less 30 per cent. Retail.

## Tubing.

## BUCKEYE FORCE AND LIFT IRON PUMPS.



Fig. 41.

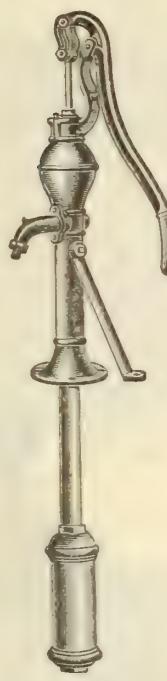


Fig. 72.

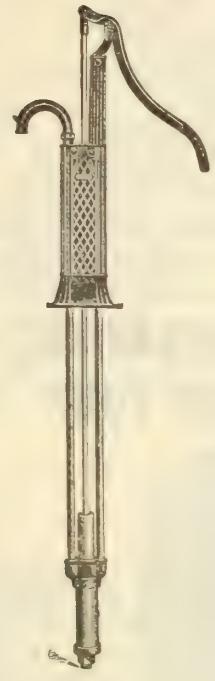


Fig. 13.

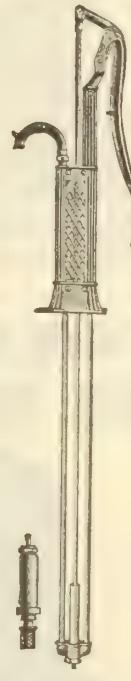


Fig. 14.



Fig. 56.

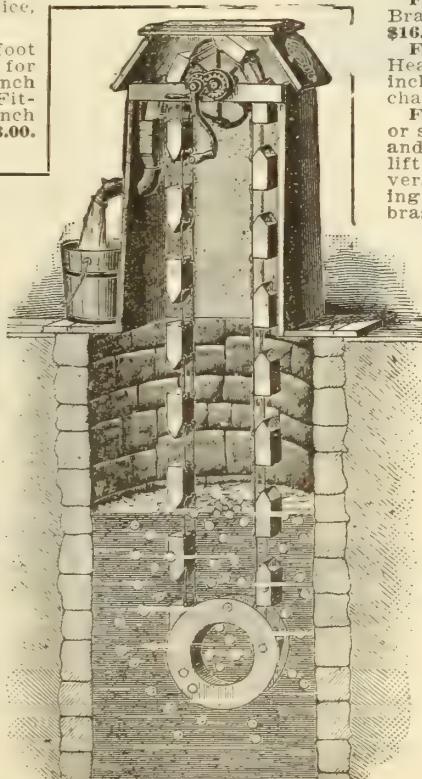


Fig. 1308.

**Fig. 41. No. 392.**—4 foot Set Length Lift Pump, for wells up to 25 feet; can be extended to 40 feet; Syphon Spout, Hand Use; adjustable base and brace; Iron Cylinder, 3 inches. Fitted for  $\frac{1}{4}$  inch pipe. Pump extends 4 feet below platform, and will fit in a 5 inch cased well. Price, List \$6.00; Retail \$4.00.

**Fig. 72. No. 22.**—Single-Acting, Set Length, Heavy Standard Bolted Spout Hand Force Pump, 6 inch stroke, 3-inch Iron Cylinder. Fitted for  $\frac{1}{4}$  in. pipe. Same as Fig. 41, but can be extended to 50 feet; will fit 5 inch cased well. List price, \$12.50. Retail price, \$7.00.

**Fig. 13. No. 200.**—Four foot Set Length Force Pump, for wells under 25 feet; 3 inch Porcelain Lined Cylinder. Fitted for  $\frac{1}{4}$  inch pipe, 7 inch cased well. List price, \$13.00. Retail price, \$8.25.



## Water Elevator and Purifier.

Purifies by means of oxygen forced into water.

Price: Elevator, with 25-foot chain and Japanned bottom wheel for 10-foot cistern, \$6.50.

Same with 30-ft. Chain for 12-foot cistern. \$7.25. Extra chain, 15c. per ft.

### IRON PUMP CYLINDERS.

All Iron.	List.	Retail.
3"x10"	\$5.00	\$1.50
3"x12"	7.00	2.10

Brass Lined.

2½"x12"	8.50	3.18
2½"x13"	8.50	3.18
2½"x11"	9.25	3.46

Brass Body.

3"x12"	9.50	3.57
3"x13"	9.50	3.57
3"x14"	10.25	3.85

**Fig. 13. No. 201.**—5½ Foot, Set Length, for wells under 25 feet deep; 3 inch Brass Lined Cylinder. Fitted for  $\frac{1}{4}$  inch pipe; 7 inch cased well. List price \$14.00. Retail price \$9.00.

**Fig. 14. No. 215.**—Deep Well Force Pump, for wells from 36 to 70 feet deep; 3 inch Brass Lined Lower Cylinder; 6 inch stroke. Fitted for  $\frac{1}{4}$  inch pipe. List, \$15.00. Retail, \$9.50.

**Fig. 14. No. 318.**—Deep Well Force Pump, for wells from 30 to 60 feet deep; 9 inch stroke;  $\frac{1}{2}$  inch Brass Lower Cylinder. List \$17.00. Retail \$10.75.

**Fig. 14. No. 515.**—Similar to the above except it has 3 in. Brass Lined Lower Cylinder. For wells up to 50 feet. List, \$16.00. Retail, \$10.25.

**Fig. 56. No. 836.**—Deep Well Force Pump, with Windmill Head, for wells from 30 to 70 feet deep; with 3-way cock,  $\frac{1}{2}$  inch Brass Lower Cylinder; 6 to 9 inch stroke, with 1 inch air chamber and discharge pipe. List \$20.50. Retail \$13.00.

**Fig. 1308.**—Well Lift and Force Pump; is adapted for deep or shallow wells. Beater top allows no side wear. Tight top and large air chamber provided with pet cock, making it a lift or force pump at will. Base and brace adjustable. Reversible lever. Spout bolted on, fitted for  $\frac{1}{4}$  inch hose. Opening at back of spout for 1-inch pipe. Brass body cylinder with brass valve seat. Drip plug actuated by rod and handle at base.

Deep-well arrangement is accomplished by lowering cylinder with pipe connected and lengthening plunger rod. When so ordered we can furnish Fig. 1308 with Compression Cock on spout at \$2.50 extra list.

### Fig. 1308, Sizes, Prices, etc.

No. 2. Cylinder,  $2\frac{1}{2}$  x 14 in. Stroke, 10 in. Capacity per stroke, .213 gal. Suction,  $1\frac{1}{4}$  in. pipe. Brass Body Cylinder, Discharges, 1 in. pipe,  $\frac{1}{4}$  in. hose. Wells, 60 to 85 feet. List price, \$17.00. Retail price, \$10.00.

**Fig. 1309.**—Same pump, but with Compression Cock. List price, \$19.50. Retail price, \$11.50.

### Closed Top, Pitcher Spout Pump.

#### SIZES AND PRICES.

No. 1—Diam. of Cylinder, $2\frac{1}{2}$ in.; Suction, 1 in. Polished Iron Cylinder. List, \$4.25.	Retail, \$1.15.
No. 2—Diam. of Cylinder, 3 in.; Suction, $1\frac{1}{4}$ in. Polished Iron Cylinder. List, \$4.75.	Retail, \$1.25.
No. 3—Diam. of Cylinder, $3\frac{1}{2}$ in.; Suction, $1\frac{1}{4}$ in. Polished Iron Cylinder. List, \$5.25.	Retail, \$1.35.

#### PITCHER PUMP LEATHERS.

No. 1—Valve and Plunger Leathers, each .....	5c.
No. 2—Valve and Plunger Leathers, each .....	8c.
No. 3—Valve and Plunger Leathers, each .....	10c.
No. 4— $2\frac{1}{2}$ in. Leather Cups...	10c.
No. 2—3 in. Leather Cups....	12c.
No. 3— $3\frac{1}{2}$ in. Leather Cups....	15c.

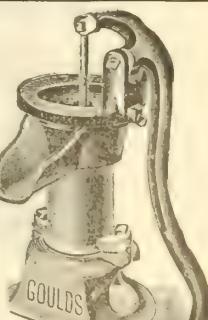
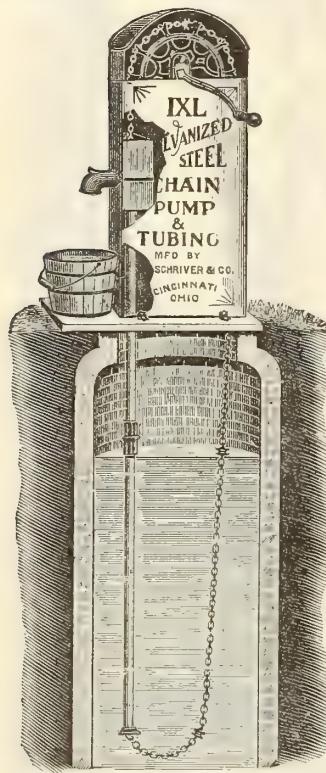


Fig. 205½

# THE IXL GALVANIZED STEEL CURBS.



## Crosby Swivel Link.



Figure 2.

Price, Crosby Swivel Link... 9c.  
Plain ..... 8c.

## The Queen Rubber Bucket.



Figure 1.

Price..... 7c.

It will not rust, being made out of No. 24 Gauge Galvanized Steel.

It will not rot or accumulate filth, and leaves the water clear and pure.

It is anti-freezing, as the reservoir piece has a small hole in same, which allows the water to run out.

It can be used in wells as deep as 40 feet.

### PRICES.

Galvanized Curb .....	\$3.00
Tubing, per foot .....	.07
Coupling .....	.18
Rubber Buckets .....	.08
Iron Platform .....	4.00
Chain, per lb. ....	.07

## THE GEM GALVANIZED STEEL CHAIN PUMP



Has extension base, which also projects below platform, and is easily fitted by cutting a square hole in the platform the length and the width of the bottom of pump.

The fixtures are first-class and anti-freezing. The pump is painted stone-color, with two coats of the best paint, and is neatly stenciled and varnished.

Made entirely of galvanized steel, in four pieces, locked together with its own metal.

There are neither rivets nor solder on it, making it very strong.

Price..... \$2.50

## Victor Expansion IXL Rubber

### Rubber Bucket.



Figure 3.

For chain pumps;  
anti-freezing.

Price, 10c.

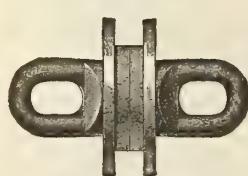


Figure 4.

Price..... 8c.

## HOUSE FORCE PUMP.

Fig. 1353.

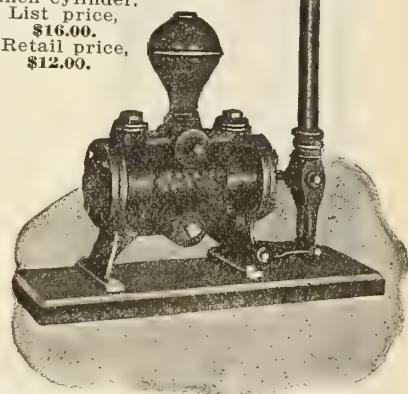
Designed for use in basements for forcing water into an elevated tank. Has 3-inch brass-lined cylinder, with metal valves, brass piston rod and brass valve seats.

The suction and discharge openings screwed for iron pipe are on both sides of cylinder, one or both sides can be used if necessary, or two pipes can be run from pump, one to supply water at pump, the other to run to tank in another part of building.

Floor space 8x24 in., and will work any pressure up to 100 lbs.

The valves are easily accessible by unscrewing caps on top of pump; 3-inch cylinder.

List price,  
\$16.00.  
Retail price,  
\$12.00.



## FORCE TANK PUMP.

### LOW DOWN. DOUBLE ACTING.

Capacity 2,000 gallons per hour. Fitted for hose and 2-inch pipe. Handle can be changed to opposite end.

The cylinder being horizontal, great strength is gained.

Cylinder, 5 in. diameter; 5-in. stroke; 2-in. opening for suction and discharge.

Plunger is solid; no valves to get out of order, and moving it in cylinder forms suction, which fills cylinder, and at same time drives water out at other end. Then, on return stroke, this water is driven out and cylinder is refilled from other end.

Will throw water 60 feet from point of nozzle.

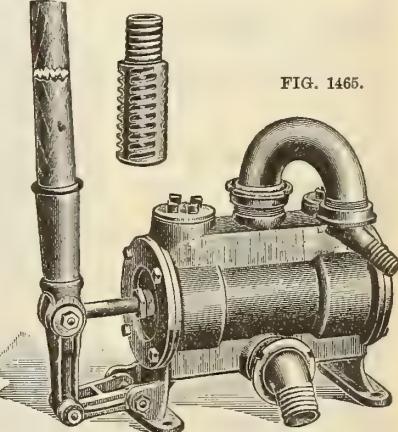


FIG. 1465.

Fig. 1465—Pump with Strainer Hose  
Couplings and Clamps..... \$7.00  
1-inch Discharge Hose, per foot... .20  
2-inch Suction Hose, per foot..... .40

# WATER TRUCKS AND COMBINATIONS

With Wood Or Steel Wheels.

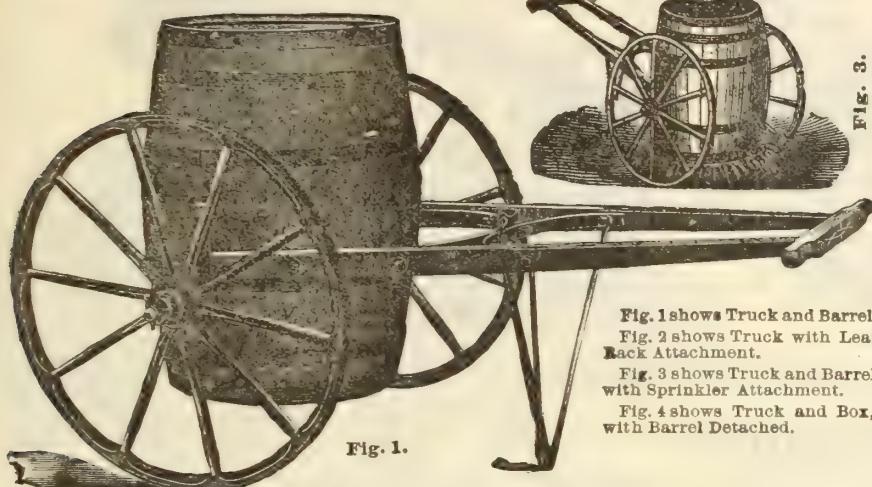


Fig. 1.

Fig. 3.

Fig. 2.

Fig. 1 shows Truck and Barrel.  
Fig. 2 shows Truck with Leaf Back Attachment.

Fig. 3 shows Truck and Barrel with Sprinkler Attachment.

Fig. 4 shows Truck and Box, with Barrel Detached.

Fig. 1. This Fig. represents our Barrel Cart, to which can be attached the Brass Spray Pump. This is a convenient combination, and may be found useful in various ways, such as watering gardens, spraying fruit trees, etc.

The Barrel Cart and Pump may be ordered separately and arranged together to suit the purchaser. The Barrel Cart may be wheeled about when filled with water, to supply sprinkling cans for watering flowers and vegetable gardens. When the running-gear or truck is ordered without barrel the trunnions may easily be fastened to any good water-tight barrel by any person with ordinary mechanical ability.

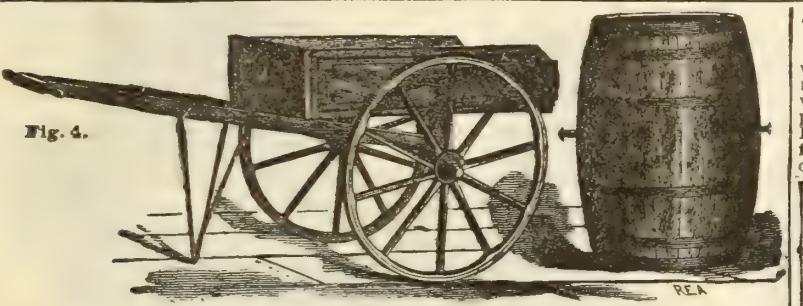


Fig. 4.

THIS shows our Sprinkling Cart, which is indispensable about parks, cemeteries and country seats for watering roads, drives, walks, lawns, etc. The wheels have wide tires and the whole outfit is well made. It can also be used as a Tank Cart for carrying water, spraying trees and removing matter from cesspools, vaults, etc. Cart for spraying trees and crops. It is substantially made throughout. There is a valve in the bottom of tank, operated by lever, within easy reach of driver. List, \$150.00. Retail, \$80.00.

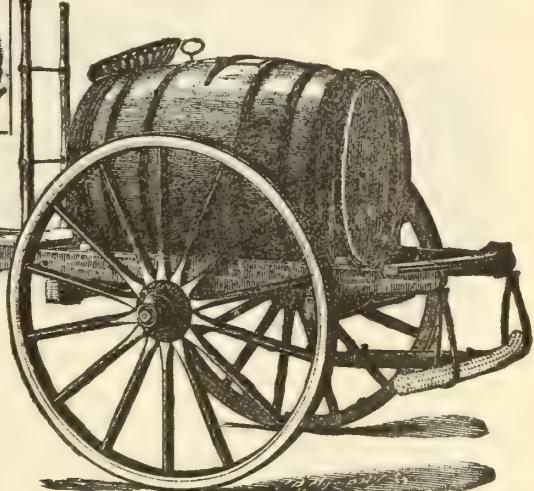
PRICE LIST.		
	List.	Retail.
Water Truck with 1½" tires....	\$10.00	\$6.00
Water Truck and Barrel.....	14.00	8.00
Water Truck and Box.....	14.00	8.00
Water Truck, Barrel and Box. 18.00	10.00	
Sprinkling Attachment.....	5.00	3.25
Leaf Racks.....	8.00	4.50
New Barrel.....	4.50	2.75
Box.....	4.00	2.75
Trunnions—List, per pair, 75¢. Retail, per pair, 50¢.		
For 2½-inch Tires on Trucks add to the above price—List, \$1.50. Retail, \$1.00.		
For 4-inch Tires on Trucks add to the above price—List, \$3.00. Retail, \$2.00.		

## EXTRA TRUCK WHEELS.

	List.	Retail.
Regular tire, wood or steel, each	\$3.50	\$2.25
2½-inch tire, wood or steel, each.	4.50	2.75
4-inch tire, wood each.....	5.00	3.00
3½-inch tire, steel, each.....	5.00	3.00

Baltimore Lawn  
and Street Sprinkler.  
List \$150.00. Retail \$80.00

Fig. 6.



# BALTIMORE PUSH CART.



Fig. 7.

## DIMENSIONS.

Width of Tire.....	1½ inches.
Height of Wheel.....	36 "
Axle .....	1½ "
Hub .....	6 "
BOX—INSIDE MEASURE.	
Length .....	40 inches.
Width .....	22 "
Depth .....	10 "

For the merchant, printer, farmer, etc., to have one of these carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and always ready to pick up at short notice. They are nicely finished; higher wheels, better ironed and altogether superior to anything of its kind on the market. There is now an immense demand for these carts, but notwithstanding we have placed the price low.

## PRICES.

Retail.....	\$7.50
List.....	13.00
Extra wheels, each—List, \$4.60. Retail,	\$2.85.

## Whitman &amp; Barnes Line Lawn Mowers

## "New Norka" Lawn Mower

9-INCH WHEEL.

Regular.	
12 in.	\$3.00
14 in.	3.25
16 in.	3.50
18 in.	3.75

Ball Bearing.	
14 in.	\$4.25
16 in.	4.50
18 in.	4.75



The pawl and pinion attachment has been thoroughly tested and is beyond question one of the best to be obtained. The Ratchet Clutch being cast solid with the pinion, there are no extra pieces to break or to get out of order.

## "NEW ELECTRIC" MOWER

Wheels 9 inches in diameter. Reel 5 3/4 inches in diameter. Four blades. Special Ball-Bearing Adjustment, high-grade hardened steel balls, cups and cones, ground, polished and dust-proof. Reel Shaft of Cold Rolled Steel and the Reel Knives are from the best grade Knife Steel, perfectly ground.

Regular.

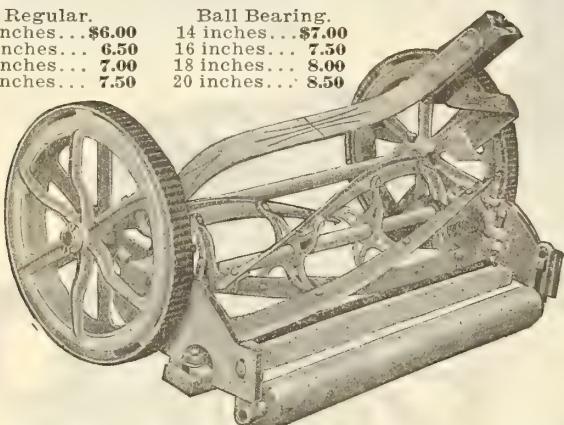
Ball Bearing.

12 in.. \$4.00	16 in.. \$4.50	12 in.. \$5.00	16 in.. \$5.50
14 in.. 4.25	18 in.. 4.75	14 in.. 5.25	18 in.. 5.75

## "NEW DIAMOND" LAWN MOWER

Regular.	
14 inches...	\$6.00
16 inches...	6.50
18 inches...	7.00
20 inches...	7.50

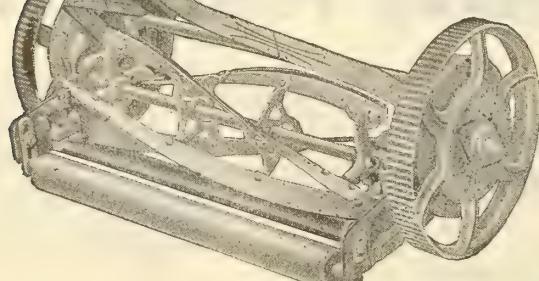
Ball Bearing.	
14 inches...	\$7.00
16 inches...	7.50
18 inches...	8.00
20 inches...	8.50



A strictly first-class, high wheel, adjustable reel Lawn Mower. It is built very strong and cannot be jarred out of adjustment. The casings have long hubs, through which an 11-16 in. solid steel shaft is passed and secured by set screws.

"W. &amp; B."

## High Wheel Mower



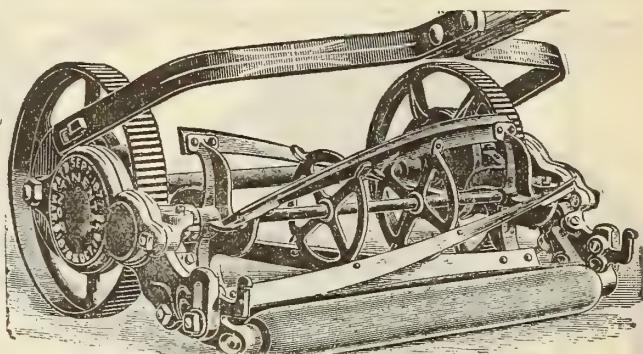
Absolutely rigid frame; cutter bar adjustment; phosphor bronze bearings; three pawl ratchet, insuring quick, positive action, and practically indestructible. Wheels 10 inches. Reel 5 3/4 inches.

Regular.

Ball Bearing.

14 in.. \$7.50	18 in.. \$9.50	14 in.. \$8.50	18 in.. \$10.50
16 in.. 8.50	20 in.. 10.50	16 in.. 9.50	20 in.. 11.50

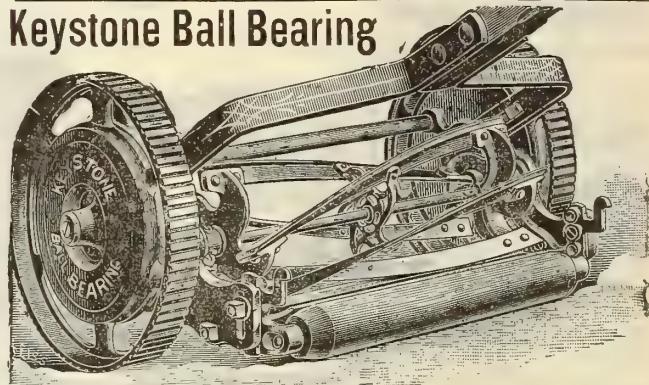
## CONTINENTAL HIGH WHEEL MOWER



This very high grade machine will cut fine grass two inches high, also grass six to eight inches. We highly recommend this machine.

List Prices.	Retail Prices.	List Prices.	Retail Prices.
15 inches.. \$25.00	\$11.25	19 inches.. \$31.00	\$14.00
17 inches.. 28.00	12.60	21 inches.. 34.00	15.25

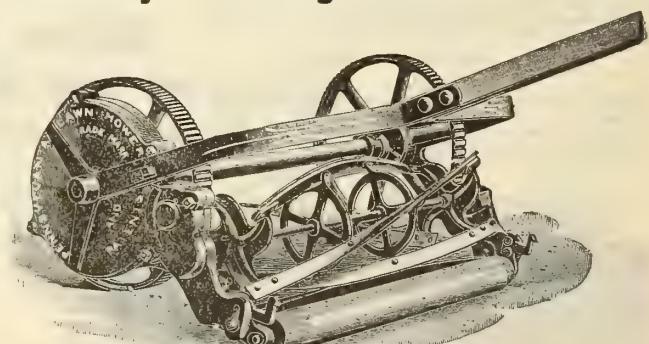
## Keystone Ball Bearing



Every detail of this Mower is in keeping with the high grade of the Pennsylvania and Continental. Can be regulated to cut from 3/8 to 1 1/2 inches from the ground.

List Prices.	Retail Prices.	List Prices.	Retail Prices.
15 inches.. \$25.00	\$10.00	19 inches.. \$31.00	\$12.40
17 inches.. 28.00	11.25	21 inches.. 34.00	13.60

## Pennsylvania High Wheel Mower



This high-grade Mower is constructed for cutting ordinary grass, as well as grass from 6 to 10 inches high. Wheel, 10 1/2 inches; cylinder, 6 1/2 inches. Four crucible steel knives.

List Prices.	Retail Prices.	List Prices.	Retail Prices.
15 inches.. \$25.00	\$11.25	19 inches.. \$31.00	\$14.00
17 inches.. 28.00	12.60	21 inches.. 34.00	15.25

## Philadelphia High Wheel Style E

A high grade machine. One of the best of this make.	
15-inch.....	List price, \$25.00
17-inch.....	List price, 28.00
19-inch.....	List price, 31.00
21-inch.....	List price, 34.00
	Retail price, \$9.00
	Retail price, 10.00
	Retail price, 11.00
	Retail price, 12.00

## BALTIMORE HORSE LAWN MOWER.



The Baltimore Horse Lawn Mower is guaranteed to be equal to any machine made. In order to appreciate its good points it is necessary to see it at work on the lawn, where it performs in a most satisfactory manner.

25-inch Machine, with draft rod.....	Retail Price, \$40.00.	List Price, \$65.00.
30-inch Machine, with draft rod.....	Retail Price, 60.00.	List Price, 100.00.
30-inch Machine, shafts and seat.....	Retail Price, 65.00.	List Price, 110.00.
35-inch Machine, with shafts and seat.....	Retail Price, 77.50.	List Price, 135.00.

**Special Discount for Cash.**

## Old Style Philadelphia Horse Lawn Mower.

This Mower with the solid (or closed) revolving cutter has four blades, and is the original Philadelphia Horse Mower. In ordering, please designate it with open or closed cylinder.

	List.	Retail.
30 in. (open) with draft rod....	\$100.00	\$70.00
30 in. (closed), with draft rod..	100.00	70.00

**Special Discount for Cash.**

## Philadelphia I. X. L. Horse Lawn Mowers.

	List.	Retail.
30 in., with draft rod.....	\$90.00	\$50.00
30 in., with shafts and seat....	100.00	55.00
35 in., complete with shafts and seat.....	125.00	70.00
40 in., with shafts and seat.....	150.00	85.00

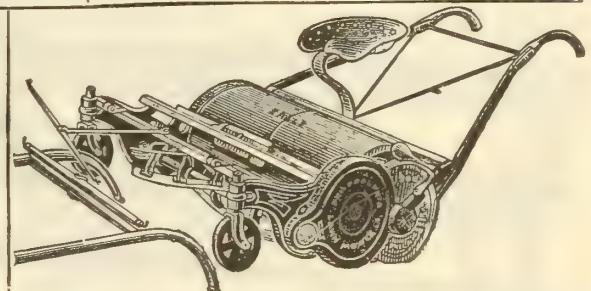
**Special Discount for Cash.**

A singletree and chain attachment will be furnished for \$2.00 net if wanted. If used must be attached to the ends of the side draft attachment, for the draft rod will bend if attached in center.

## The Pennsylvania Horse Lawn Mower.

Furnished with handles and draft irons, the latter arranged to swing to the side, thus permitting the horse to walk on the cut grass.

30-inch cut. Weight, 358 lbs. 4 knives. List, \$100.00. Retail, \$65.00.  
38-inch cut. Weight, 400 lbs. 4 knives. List, 130.00. Retail, 85.00.  
For shafts, seat and footboard, add. List, \$20.00; Retail, \$12.00



## Philadelphia Eagle Horse Mower

The latest production of the Philadelphia Lawn Mower Co. in horse mowers, and, in our opinion, one of the best machines they ever produced.

30-in., with seat and shafts and draft pole.	\$100.00
List price.....	75.00
Retail price .....	75.00
35-in., with seat and shafts and draft pole.	125.00
List price.....	92.50
Retail price .....	92.50
40-in., with seat and shafts and draft pole.	150.00
List price.....	110.00
Retail price .....	110.00

## Combination Hand and Pony Mower



The patented horse attachment of the Mower is its great feature. The draft of the Mower is just the same as when operated with the handle.

Diameter of traction wheels, 10 inches; weight, 90 pounds.

Price..... \$18.00

**Special Discount for Cash.**

## Golf Roller Mower

Peculiarly adapted for use on Golf and Tennis Grounds. The heavy iron roller, together with the speed of the revolving knives, produces the very best results, leaving a smooth-cut surface on the lawn. The adjustments are simple and the durability and efficiency beyond question.

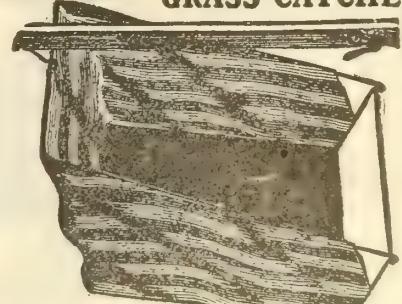


PRICE.	List.	Retail.
10-inch—4 blades.....	\$13.00	\$9.10
12-inch—4 blades.....	15.00	10.50
14-inch—4 blades.....	17.00	11.90
16-inch—4 blades.....	19.00	13.30
18-inch—4 blades.....	21.00	14.70
20-inch—4 blades.....	23.00	16.10

For 6 Blades add to list \$1.00.

For retail add 70c.

## UNIVERSAL GRASS CATCHER.



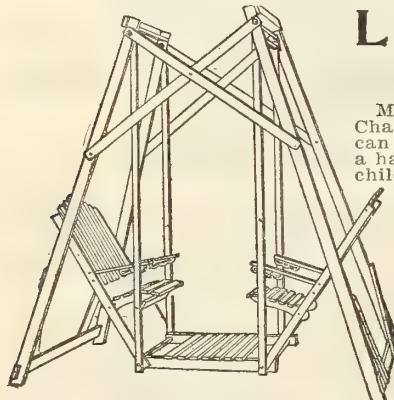
A Grass Catcher that will fit any mower. Canvas body, blacked sheet metal bottom. Two sizes—No. 1 will fit 10, 12, 14 and 16-inch mower, and No. 2 will fit 16, 18 and 20-inch mower.

List price per dozen..... \$15.00

Our special price each..... .75

# Lawn Mower Repairing and Sharpening.

SEND in your **LAWN MOWERS** early for sharpening and repairing. This department, in season, is run to its full capacity, and in consequence we are compelled to adopt the policy of "first come first served." We wish to urge upon our friends the necessity for complying with the above request, and if they do no one need have to wait while the grass is growing. Look over your machines during the winter (this applies to other kinds of machinery as well as Lawn Mowers), and see what repairs are needed. Do not wait until spring work is crowding you. We employ efficient mechanics to do our machine repairing, and turn out jobs in the best possible manner and as expeditiously as the quality of the work will admit. To properly sharpen a Lawn Mower requires someone who thoroughly understands his business, and even though it may be properly sharpened, unless it is adjusted to a hair it will not cut. After we turn out a machine it should be severely let alone, and if it does not cut send it back to us, and do not attempt to adjust it yourself. There is no mower that leaves our shop that is not adjusted to cut tissue paper, and if it does not do the work satisfactorily it is owing to hard usage before reaching its destination. The cheap machines that are flooding the market are made of cheap material and will wear only a short while, and can rarely be repaired at all.



## LAWN SWINGS THE ARCTIC

Made from selected stock, very strong. Chairs have three adjustments. Footrest can be raised level with the seats to form a hammock. Can adapt height of seats for children. Two and four passengers.

	List price.	Retail price.
Arctic two passenger.....	\$10.00	\$6.00
Four passenger .....	13.00	8.00

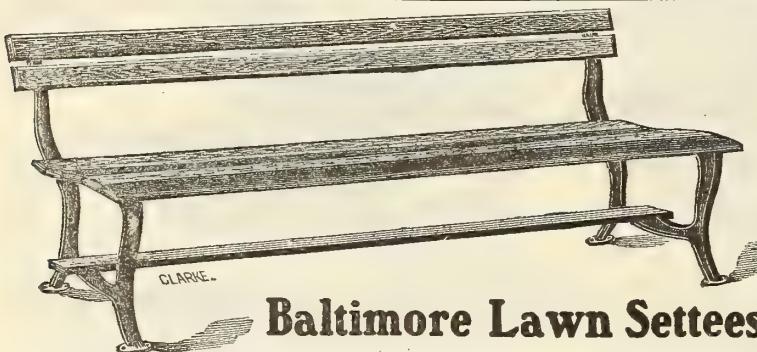
	List price.	Retail price.
Two passenger.....	\$9.00	\$5.50
Four passenger .....	10.00	7.00

We carry cheap Swings. Prices on application.

## ARCTIC Swinging Chair.

The Latest Design for a Swinging Chair Yet Produced.

It occupies on the porch floor a space about six feet long by three feet wide and about six feet high. It is made of the most substantial material, the best of dry hardwood and steel arms and braces, and arch of steel tubing. It is provided with a footrest, adjustable for children or adults. List price.....\$6.50 Our special price 4.00



## Baltimore Lawn Settees.

This most comfortable Lawn Seat is illustrated herewith. It is attractive and gives plenty of room. Just the thing for parks, porches, picnic grounds, hotels, cemeteries, etc.

Painted bright red and varnished.

	List price.	Our special price.
Four feet.....	\$5.50	\$3.50
Five feet.....	6.80	4.25

## "Links-Lawn" Boot.

Is fastened firmly to the hoof instead of around the ankle, thus giving free action to the horse's feet and obviating all possibility of chafing. Our process of hardening, water-proofing and steel-riveting the sole inside and out (see cut) gives a durability never before obtained in a lawn boot. The rolling toe prevents the cutting of the turf.



### WIDTH INSIDE.

No. 2.....	5 $\frac{1}{2}$ inches.
No. 4.....	6 $\frac{1}{2}$ inches.
No. 6.....	7 inches.

The right sizes for Nos. 2, 4 and 6 horseshoes. No. 0 Mule and No. 1 Pony. Special sizes to order.

### WIDTH INSIDE.

4 inches.	4 $\frac{1}{2}$ inches.
List price \$15.00;	our price \$9.00 per set.

## LITTLE WONDER SWING

Strong, neat, and nicely finished. Made of hard wood and steel.

For a cheap swing it has no equal.

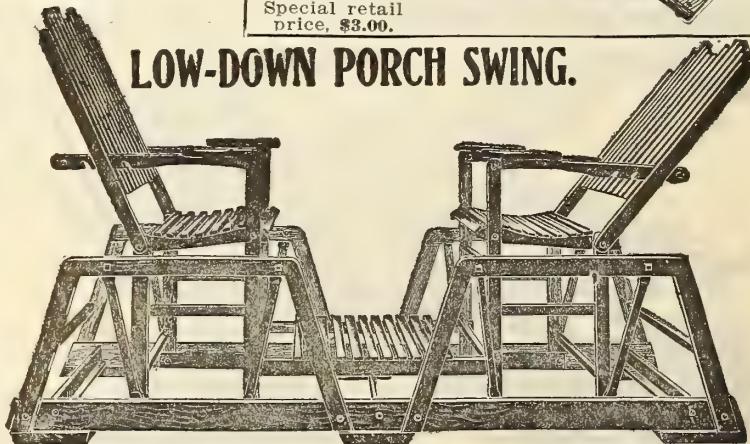
All slats bolted to frame—no rivets.

Size 36 inches between arm rails.

List price,  
\$5.00.  
Special retail  
price, \$3.00.



## LOW-DOWN PORCH SWING.



The swing has an adjustable footrest that may be placed at the proper height to suit the children, and it is so perfectly balanced that the smallest child can operate it.

The backs of the swing may be adjusted to any desired position. Without being thrown back and footrest raised, and with the addition of robes and cushions, it makes a most comfortable swinging couch.

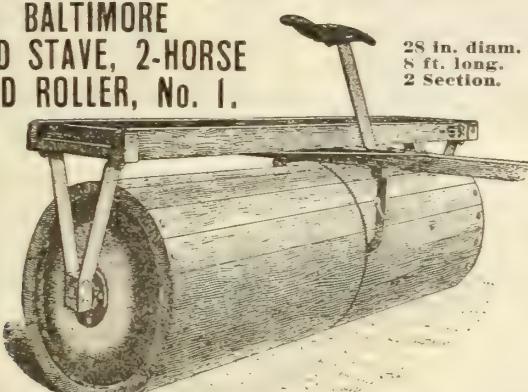
### OUR SPECIAL PRICE.

	List price.	Retail price.
Two-passenger swing .....	\$13.00	\$8.00
Four-passenger swing .....	15.00	10.00

## LAWN AND FIELD ROLLERS

THE BALTIMORE  
HORSE LAWN ROLLER

This Roller is furnished with seat. We furnish this Roller in two sizes, Nos. 16 and 17. No. 16 (see cut) has 26-in. steel rim, 4 feet, one section, one horse; weight 375 lbs. No. 17 has 26-in. steel rim, 4 feet, two sections, one horse, weight 425 lbs. One Section, 4 ft.—List Price, \$36.00. Retail Price, \$21.00. Two Section, 4 ft.—List Price, \$40.00. Retail Price, \$23.00.

BALTIMORE  
WOOD STAVE, 2-HORSE  
LAND ROLLER, No. 1.

28 in. diam.  
8 ft. long.  
2 Section.

The rim of this roller is made of hard lumber, well seasoned and selected stock, made to fit into the edges of the pressed steel head. By this construction the edges of the rim are protected by sheet steel edges of the head. The whole is held together by three long bolts running lengthwise on the inside of the roller. By so doing the steel heads are clamped together, instead of the pieces being bolted to the head. It is equipped with steel end and center hanger, low hitch and removable rolled bearings. The axle extends through the roller sections.

List Price, \$33.00. Retail Price, \$20.00.

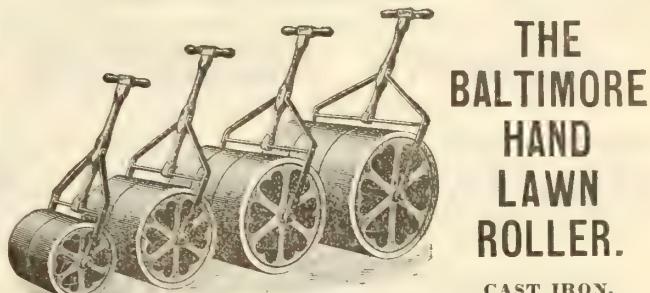
Imperial Pulverizer, Clod Crusher,  
Roller and Leveler.

List Price, \$66.00. Special Retail Price, \$36.00.

SPECIAL DISCOUNT FOR CASH.



The "Imperial" is composed of two sets of hollow-disc rollers which turn upon a revolving axis, one set being placed directly behind and just in the center of the other, thereby covering every inch of ground, and effectually pulverizing the hardest clods, and at the same time subjecting the ground to pressure and packing the soil a couple of inches below the surface, enabling it to retain moisture, and at the same time leaving the surface loose, mellow and level for the reception of the seed. Most pulverizers tear up the soil and leave it too loose to retain the moisture, or to allow the roots to obtain a firm hold, while others, in their attempt to pack the soil will press clods beneath the surface, thereby leaving it in a very undesirable condition for the reception of the seed, and if a harrow is put over the field again all the clods come to the surface and the field is as rough as ever.

THE  
BALTIMORE  
HAND  
LAWN  
ROLLER.

## CAST IRON.

These rollers are especially desirable; they will not dent; wet grass and dirt do not cling to them, owing to their highly polished surface and rivetless ends. Have counter-balance, which holds up the handle and makes it easy to push.

No.	Width	Diam.	Total	List	Retail		
No.	Sec.	Face.	Sec.	Length.	Weight.	Price.	Price.
4	2	10 in.	20 in.	20 in.	250 lbs.	\$15.50	\$12.50
6	3	8 in.	20 in.	24 in.	300 lbs.	18.50	15.00
9	2	10 in.	24 in.	20 in.	400 lbs.	24.50	20.00
11	3	8 in.	24 in.	24 in.	450 lbs.	27.50	22.50

We can furnish the above rollers to weigh 50, 100 or 150 pounds more than the weights given, for which add 4¢ per lb.

BALTIMORE  
STEEL RIM, 2-HORSE  
LAND ROLLER, No. 2.

24-inch:  
List Price, \$40.00.  
Retail Price, \$24.00.

26-inch:  
List Price, \$42.00.  
Retail Price, \$25.00.



The illustration shows the construction of our 24 and 26-in. 8-foot 2-section steel-rim Roller, with steel spring and seat. This is one of the most popular rollers.

The heads are pressed steel with removable chilled bearings. It also has center hanger and low hitch.

CAST-IRON FIELD ROLLERS.  
FULL ASSORTMENT OF SIZES. Prices on application.

## OLD DOMINION SEED DRILL

List Price, \$10.50.  
Retail Price, \$7.50.

This Drill is of a type familiar to every market gardener in the country. The points that we claim are simplicity, quality of material, finish, and the thoroughly satisfactory way it does its work.



# NEW UNIVERSAL GARDEN TOOLS.

## Matthews' *New Universal* Garden Drill.

ONE OF THE STANDARD DRILLS OF AMERICA.

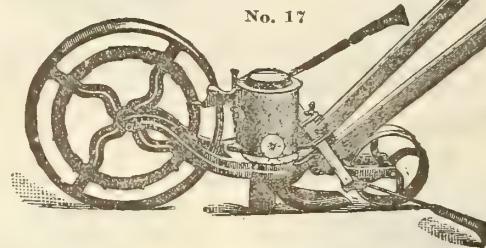
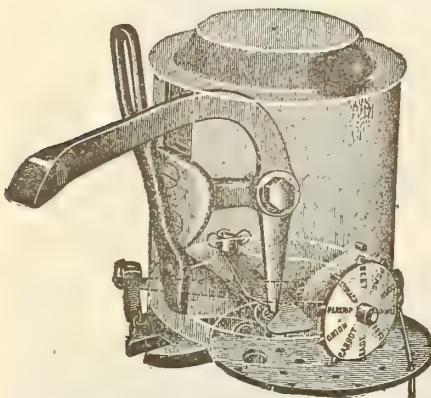
SIMPLE IN CONSTRUCTION. NEAT IN DESIGN. EFFICIENT IN OPERATION. NONE BETTER CAN BE PROCURED.

Medals and testimonials confirming the superiority of the "Matthews" have been repeatedly bestowed upon it from all quarters, and as it has been improved from time to time it has always been acknowledged ONE OF THE MOST PERFECT DRILLS MADE. The present form is the neatest and simplest yet produced, and cannot fail of proving an even more popular modification of this reliable Drill.

Our Retail Price ..... \$6.25

List Price ..... \$8.00

### The Seeding Device.



Seeding can  
be  
regulated  
to  
exact quantity  
desired.



THE SEEDING DEVICE employed on all Matthews' Seeders is set forth in the accompanying illustration, showing transparently the solid wall of the seed box. The indicator, which is also shown above, has the names of the various seeds plainly marked upon it. The DIAL has a separate hole for each kind of seed, which registers in the CENTRE of the hole in bottom of seed-box. The hole in the dial may be gauged to a nicety by means of the REGULATOR, held by a thumb-screw. To lead the seed to the central opening there is provided CORRUGATED and shouldered bottom, which admits of dropping any quantity of seed, even to a SINGLE PAPER. The feed is practically a force feed. No other device ever met with the success of the AGITATOR principle for dropping all the small garden seeds. The seed is not bruised or damaged by the AGITATOR. The MANUAL CUT-OFF indicated in the illustration by the dotted lines, and with its spiral spring connection, is worked from the handle by a wire, and the flow of seed may thus be instantly checked. No seed need be wasted in turning rows.

## Matthews' *New Universal* Hill and Drill Seeder.

No. 16

This implement is the same in style and working qualities as the one just described, but is arranged so as to drop the seed continuously in drills or at a distance of 4, 8, 12, 16, 24 and 48 inches apart. The adjustment from drills to hills is made by one screw in attaching a brass cut-off to the agitator. The distance apart is regulated by the number of cogs on the driving wheel against which the agitator strikes. The seed cannot drop except when the hole in the bottom of seed-box is opened by the agitator striking a cog on the wheel, and it immediately closes again as the agitator drops. This saves seed, as no more need be dropped at a time than is desired, no matter what the distance may be. There are no parts to wear or get out of order. If this implement is wanted be sure and order the "Hill and Drill Seeder," as the regular garden drill cannot be fitted with the attachments. Our retail price, \$7.00. List price, \$9.00.

The manufacturers of this line do not make a Hill and Drill Seeder with cultivating attachments, and we would recommend, as FAR PREFERABLE, one of the above separate drills and a separate single wheel hoe complete, with ALL the attachments, for which our retail price covering the two separate implements is only \$12.00.

## Matthews' *New Universal* Constellation Seeder, Hoe, Cultivator, Plow, Rake and Marker.

No. 19

This is not only a desirable combination of the Garden Drill already described with the New Universal Cultivating attachment, but it has the advantage of being either a double wheel or single wheel implement at will, the change from one to the other being readily made.

The use of a one-wheel Seed Sower insures the nicer work, as if two wheels are used an obstruction under one wheel or the other has a tendency to crook the rows, and this makes after-cultivation harder. The operator always has a one-wheel seeder under full control, and in addition the single wheel follows in the mark made when planting the previous row and presents a sight to keep the rows straight. The two wheels are desirable, however, when used as a cultivator or wheel hoe, as in this way the rows of young plants may be straddled and the cultivating done on both sides of the row at one passing. The special feature of this implement is that when used in straddle row cultivation there is no projection below the frame to interfere with plants. The combination is one which cannot fail of recommending itself to all. The attachments are—One (1) Pair Hoes, Five (5) Cultivator Teeth, One (1) Pair Rakes, One (1) Pair Plows.

List Price, boxed..... \$10.50

Retail price, boxed..... \$8.00

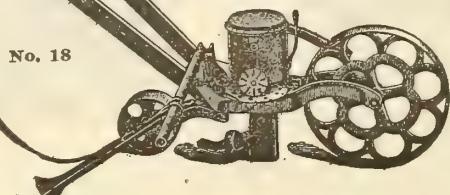
Can be used as one wheel or two wheel.



### The Marker

Is of a less expensive pattern, but such as is generally employed on other drills for which a higher price is asked. It may be set for the various distances, and is thrown from side to side, being pivoted between the handles.

No. 18

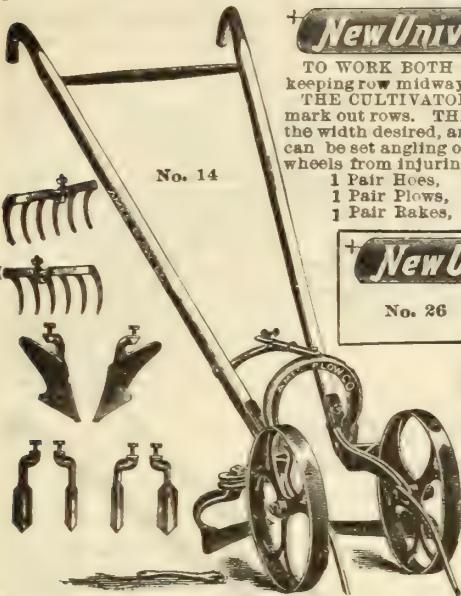


## Matthews' *New Universal* Gem Seed Drill.

It has a new seed regulator for gauging the exact flow of seed required; seed cut-off for stopping the flow while turning at the ends of rows, and marker adjuster for marking the rows at any desired distance apart. We do not recommend it for use instead of the larger drills, but we are sure that all in want of such a drill as we represent will find this to be a very valuable implement.

Retail Price, \$5.00 List Price, \$6.25

Send for Special Catalogue containing full description of all New Universal and Matthews' Tools.



No. 14

TO WORK BOTH SIDES of a row at one passing, the attachments can be set to suit width of crop to be cultivated, keeping row midway between wheels. THE HOE BLADES can be set to turn in or out, as desired by the operator. THE CULTIVATOR TEETH.—Four are furnished with each. Two cultivator teeth can be used at desired width to mark out rows. THE PLOWS.—For furrowing they can be set close together and turn outward. FOR COVERING, set the width desired, and turn inward. THE RAKES.—For fine cultivation and other uses of an ordinary rake. They can be set angling or straight across. Easily adjustable for width or depth. THE LEAF GUARDS are to prevent wheels from injuring large spreading foliage.

- 1 Pair Hoes, 1 Pair Narrow Cultivators.
- 1 Pair Plows, 1 Pair Wide Cultivators.
- 1 Pair Rakes, 1 Pair Vine Guards.

{ OUR RETAIL PRICE, \$5.50. } Specially designed for working both sides of the row at one passing.  
 { LIST PRICE, - - \$6.50. }

### New Universal

No. 26

HIGH ARCH EXPANSION WHEEL HOE,  
CULTIVATOR RAKE AND PLOW.

This is a larger implement than the Double Wheel Hoe just described, and high enough to cultivate over 20-inch plants. Can be used as a One Wheel as well as a Two Wheel. Has 5 cultivator teeth instead of 4. List, \$9.50 Retail, \$8.00.

### New Universal

### New Universal

### DOUBLE WHEEL HOE, With Hoe Blades Only

Retail price.. \$3.50. List price.. \$4.25. No. 15

### "FLIER" HAND SINGLE WHEEL HOE, CULTIVATOR AND PLOW No. 2.

No. 12

Retail Price, \$4.25.  
List Price, - \$5.00.



### New Universal

### HAND SINGLE WHEEL HOE, CULTIVATOR.

No. 11

**Plow and Rake.** As with the Double Wheel Hoe described, this can be used either between or astride the rows, although it is really intended for between-row cultivation. For straddle cultivation the wheel can be set to one side, so as to bring the row of young plants under center of frame. Later cultivation must be done between rows. The attachments are: 1 Pair Hoes, 1 Pair Rakes, 5 Cultivator teeth, 1 Vine or Leaf Guard, 1 Pair Plows.

List price..... \$5.75.

Retail price..... \$4.75.

This implement is same as our regular Single Wheel Hoe, except that at this price fewer attachments are furnished. They are: 1 Pair Hoes, 3 Cultivator teeth, 1 Large Plow. If this style is wanted, be sure and order the "FLIER."

### New Universal

### No. 9 DRAW PLOW.

This is the same Plow (but without wheel) as used in the NEW UNIVERSAL HAND WHEEL PLOW fitted with long handle, to be drawn instead of pushed

List price, \$2.00. Retail price, \$1.65.

### New Universal

### Hand Single Wheel Hoe.

With Hoe Blades Only. No 13

Retail, \$2.75. List, \$3.25.

### Baltimore "Rival" Garden Plow Complete.



Handles can be raised or lowered to suit man or boy. The different extras used on the "RIVAL" are:

Shovel,  
Calf-Tongue,  
Weeder,  
Mouldboard  
and  
Rake.

PRICE, \$3.00.

Extra Mould, - 30c.

" Sweep, - 25c.

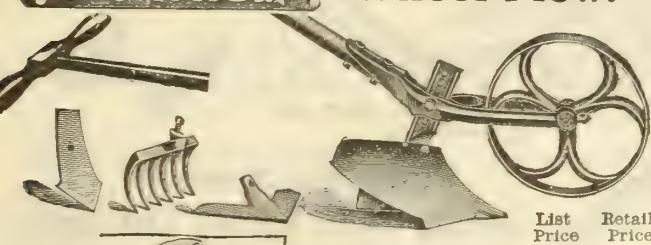
" Large Blade, 20c.

" Bull Tongue, 15c.

" Rake, - 30c.

### New Universal

### Wheel Plow.



No. 10, Wheel Plow only.. \$2.25  
No. 112, Same with all attachments shown..... \$2.75

List Price \$2.00  
Retail Price \$2.40

### New Universal

### GARDEN PLOWS AND ATTACHMENTS.

No. 116.....	\$3.75	Retail price	\$3.25
No. 8.....	\$3.25		\$2.75

List price

Retail price

\$3.25

\$2.75

No. 116 with wheel front and rear gives perfect steadiness and regulates exact depth of cultivation.

No. 8, Same as No. 116, but without rear wheel.

The attachments on both the above are:

- 1 Landside Plow.
- 1 Sweep or Scuffle.
- 1 Rake.
- 1 Double Tongued Cultivator.



### THE ORIOLE GARDEN PLOW.

The center weight falls directly over the pivoting point of the wheel axle, making it self balancing. Handles can be raised or lowered to suit man or boy. The attachments that go with each plow are a mouldboard with land side, shovel, calf tongue, weeder and cultivator. The cultivator is better than a rake.

PRICE, \$3.00.

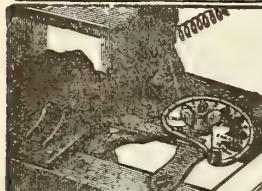
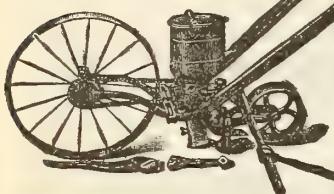
**No. 18. IRON AGE SEED DRILL.**

One of the Lightest, Strongest and Most Reliable Seed Drills on the Market.

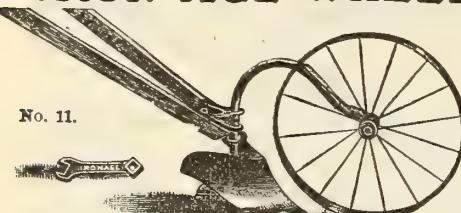
Price \$6.50.

**No. 17.** Same tool with the addition of the cultivating tools.

Price \$9.00.



NEW PERFECT INDEX

**IRON AGE WHEEL PLOW.**

No. 11.

PRICE.....

\$2.25.

A tool needed in every kitchen garden for breaking ground, opening furrows, ridging up, covering and plowing.

Also an excellent tool for poultry men in turning under the droppings in poultry yards.

\$2.25.

**EUREKA SEEDER.**

Have You a Hot-Bed?

It's the only machine suited to sow in a hot-bed.

Sows up close to the sides in very straight rows.

Sows the smallest packet of seeds as well as a large bulk.

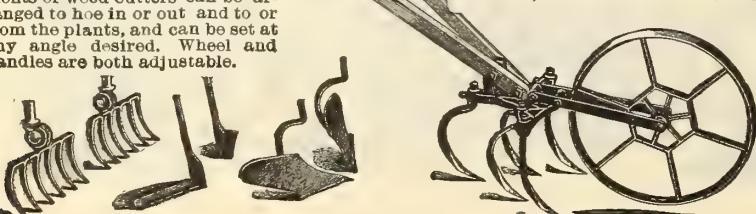
Price.....

\$1.00

This Cultivator has an entirely new arrangement of frame which is strong, neat and compact, and with the aid of the different attachments, can be used for hillng, furrowing or covering. The hillng attachments or weed cutters can be arranged to hoe in or out and to or from the plants, and can be set at any angle desired. Wheel and handles are both adjustable.

**The Baltimore Single Wheel Garden Cultivator.**

Price, without rakes... \$4.00  
Price, with rakes..... 4.50

**No. 6.****Iron Age Combined Double Wheel Hoe.**

Hoe Hill and Drill Seeder. Price \$11.00

**Iron Age Hill and Drill Seeder.**

No. 8. Price \$10.00.

For all gardeners and truckers who require a Seed Drill of large seed capacity. The wheel is made of steel, 15 inches high. The Hopper is low, therefore the delivery of the seed is close to the ground. The agitator is a revolving brush, which absolutely does not injure the seed. The Seeder will sow in continuous rows or drop in hills at 4, 6, 8, 12 or 24 inches apart.

In the **No. 6 Hill and Drill Seeder** is combined a drill seeder with hill dropping device, a double wheel hoe and a single wheel hoe. It sows in drills and drops with perfect accuracy all the seeds varying in size from celery to corn. Will drop in hills at 4, 6, 8, 12 or 24 inches apart.

**No. 1.****Iron Age Double Wheel Hoe.**

As shown in cut.

Price, \$6.50.

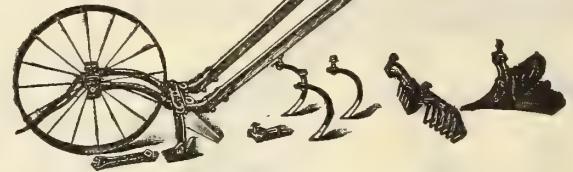
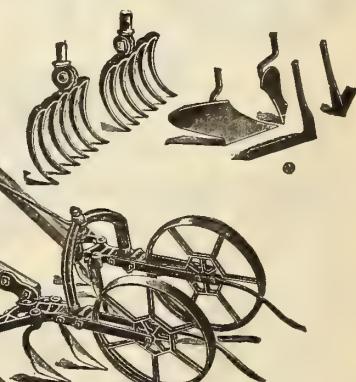


**No. 3. Iron Age Double Wheel Hoe.** Same tool as shown in cut, but with hoes only. \$3.75.

**No. 20.****IRON AGE SINGLE WHEEL HOE.**

Is a steady, strong, light and easy-running tool, with attachments as shown in cut.

Price, \$5.50.

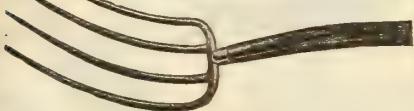
**THE BALTIMORE****Double Wheel Garden Cultivator**

This Cultivator has a new device for expanding and contracting, which permits the operator to set the machine instantly in any desired width. It is furnished with various attachments used for harrowing, furrowing and covering.

Price, without rakes, \$5.00. Price, with rakes, \$5.50.

## FORKS AND RAKES

### Manure Forks



**No. 23.**—Oval, four-tine, light, not strapped.....\$55c. each.

**No. 24.**—Four-tine, 4½-foot handle, strap ferrule.....\$65c. each.

**No. 124.**—Four-tine, patent locked, strapped.....\$65c. each.

**No. 1106.**—Patent locked, extra heavy, full polished, strapped.....\$85c. each.

**No. 605.**—Five-tine, ferrule, long handle.....\$85c. each.

**No. 606.**—Six-tine, ferrule, long handle.....\$1.00 each.

**No. 24½.**—D handle, 4-tine, 55c. each.

**No. 105½.**—D handle, four-tine, strapped.....\$55c. each.

**No. 107½.**—D handle, four-tine, cap ferrule.....\$75c. each.

**No. 505½.**—D handle, five-tine, cap ferrule.....\$95c. each.

**No. 506½.**—D handle, six-tine, cap ferrule.....\$1.10 each.

**No. 62.**—Four-tine, diamond tine, heavy, malleable D handle...\$1.10 each.

### Hay Forks

SILVER POLISH  
Damascus Temper



Retail  
Price,  
Each.

**No. 25.**—Two-tine hay, common ferrule, straight 5-foot handle.....\$55c.

**No. 26.**—Two-tine hay, common ferrule, 6-foot straight handle.....\$65c.

**No. 025.**—Two-tine hay, strap ferrule, 5-foot straight handle.....\$72c.

**No. 026.**—Two-tine, strap ferrule, 6-foot straight handle.....\$82c.

**No. 35.**—Three-tine, 5-foot handle, common ferrule.....\$65c.

**No. 36.**—Three-tine, 6-foot handle, common ferrule.....\$78c.

**No. 035.**—Three-tine, 5-foot handle, strap ferrule.....\$78c.

**No. 036.**—Three-tine, 6-foot handle, strap ferrule.....\$95c.

Seven or Eight Ft. Handle Forks, Extra.

### SPADING FORKS

**No. 170 or 1170.**—Pat. Locked Spading Forks, extra heavy, strap ferrule. Price, \$1.00 each.

**No. 04½.**—Malleable D handle, angular tine, strapped ferrule. Price, 55c. each.

**No. 177½ or 1177½.**—Four-tine, angular back. Price, 82c. each.

**No. 27½ or L. 4.**—Medium weight, angular tine, malleable D handle, strap ferrule. Price, 82c. each.

**No. B. 4.**—Boys, four-tine. Price, 55c. each.

**10-Teeth, All-Wood  
Hay Rake** - - - 25c.

**20-Tooth, All-Wood  
Lawn Rake** - - - 50c.

**XX 3-Bowed Wood  
Lawn Rakes, 24  
Teeth** - - - - - 50c.

The XX can be furnished with either steel or wooden bows.

**AUTOMATIC  
SELF-CLEANING**

**LAWN  
RAKES**

Three-prong Ash, Bonner.....\$50c.  
Three-prong Oak Wood Stable Forks.....\$80c.  
Four-prong Oak Wood Stable Forks.....\$60c.



THE IOWA FARMING TOOL CO.,  
Fort Madison, Iowa.

### GENERAL UTILITY FORK



SPECIAL PRICES IN QUANTITIES ON ALL FORKS.

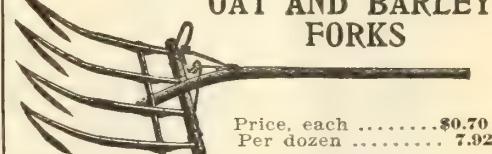
**No. 1010 or 910.**—Ten-tine, scoop shape, malleable D handle, strap ferrule. Price \$1.65 each.

**No. 1012 or 912.**—Ten-tine, scoop shape, malleable L handle, strap ferrule. Price \$1.92 each. Especially for handling beets, onions, apples, corn, etc. Tine points are flattened and rounded, so as not to injure potatoes, etc.

**No. 714.**—Coke Forks, 14-tine, D handle, strap ferrule. Price \$2.05 each.

**No. 710 or 100.**—Ten-tine, D handle, stone forks. Price \$1.65 each.

### OAT AND BARLEY FORKS



Price, each ..... \$0.70  
Per dozen ..... 7.92

### STABLE FORKS



Three-prong Ash, Bonner.....\$50c.  
Three-prong Oak Wood Stable Forks.....\$80c.  
Four-prong Oak Wood Stable Forks.....\$60c.

**PRICES:**  
With 22 teeth, 60c.  
With 26 teeth, 70c.  
**Lawn King Rake,**  
With 22 teeth, 40c.



A backward motion of the rake from operator will clean all the teeth at once, thus avoiding the disagreeable task of cleaning the teeth with the fingers. The teeth are made of the best hickory, and will not tear the sod or grass.

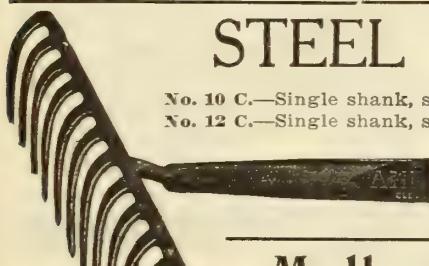
### STEEL RAKES

**No. 10 C.**—Single shank, solid steel, 10 in..50c. each.

**No. 12 C.**—Single shank, solid steel, 12 in..60c. each.

**No. 14 C.**—Single shank, solid steel, 14 inches.....70c. each.

**No. 16 C.**—Single shank, solid steel, 16 inches.....80c. each.



### Malleable Rakes

Retail Price.

**No. 010 M.**—10-tooth, single shank...20c. each.

**No. 012 M.**—12-tooth, single shank...25c. each.

**No. 014 M.**—14-tooth, single shank...30c. each.

**No. 016 M.**—16-tooth, single shank...35c. each.

**No. B12 M.**—12-tooth, braced shank...25c. each.

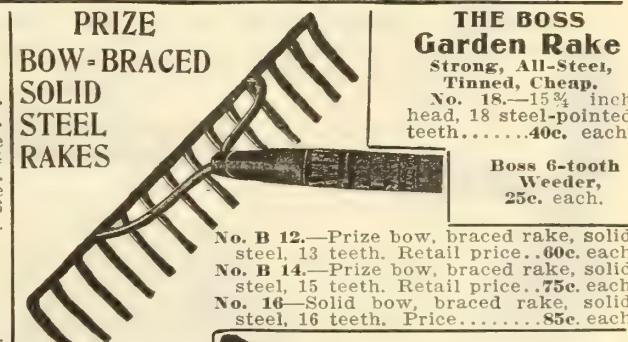
**No. B14 M.**—14-tooth, braced shank...30c. each.

**No. B16 M.**—16-tooth, braced shank...30c. each.

**No. 1.**—Solid steel, turf edger.....50c. each.

**No. 30.**—Steel thistle dock cutter...50c. each.

### PRIZE BOW-BRACED SOLID STEEL RAKES



### THE BOSS Garden Rake

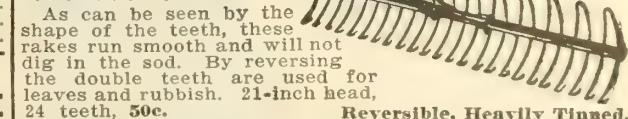
Strong, All-Steel,  
Tinned, Cheap.

**No. 18.**—15 ¼ inch head, 18 steel-pointed teeth.....40c. each.

**Boss 6-tooth  
Weeder,**  
25c. each.

**No. B 12.**—Prize bow, braced rake, solid steel, 13 teeth. Retail price...60c. each  
**No. B 14.**—Prize bow, braced rake, solid steel, 15 teeth. Retail price...75c. each  
**No. 16.**—Solid bow, braced rake, solid steel, 16 teeth. Price.....85c. each

### ALL-STEEL LAWN RAKES



As can be seen by the shape of the teeth, these rakes run smooth and will not dig in the sod. By reversing the double teeth are used for leaves and rubbish. 21-inch head, 24 teeth, 50c.

Reversible, Heavily Tinned.

### No. 211 HARVEST RAKE

This rake takes the place of the old style wood rake with wood or wire bars. Ash head, ten hickory teeth, a combined malleable brace and socket and a good handle. The malleable brace is fastened to the rake head with two rivets and two extension lugs that grip around the rake head.

Price 25c.

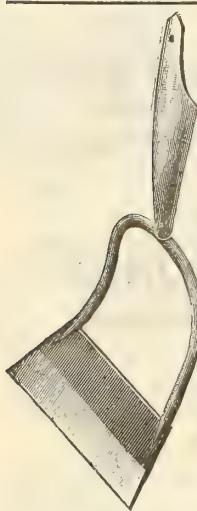


# "KRETSINGER" Cut easy Hoe.

## DO YOU SEE THAT EDGE

### KRETSINGER CUT-EASY HOE.

This is the finest Hoe made. Cuts easy, sells easy. Try it.  
 K. 1—Kretsinger Socket Hoe..... 65c.  
 K. 2—Kretsinger Shank Hoe..... 60c.



### Scuffle Hoes

4 inches, English.....	50c.
6 inches, English.....	60c.
8 inches, English.....	70c.
10 inches, English.....	80c.
No. X, G. S. Brace or Shank Scuffle Hoe, 8- in. Steel Blade, with Handle .....	50c.

See also Page 54.

### Cotton Hoes

No. 127—7 in. Handled Cotton Hoe.....	40c.
No. 127½—7 in. Handled Cotton Hoe .....	45c.
No. 128—8 in. Handled Cotton Hoe .....	50c.

### PLANTER HOES

No. 107—Heavy Handled Planter Shank Hoe, 7-inch blade .....	50c.
No. 107½—Heavy Handled Planter Shank Hoe, 7½-inch blade .....	50c.
No. 108—Heavy Handled Planter Shank Hoe, 8-inch blade .....	60c.

### WARREN HOE.

Very useful in making rows and weeding onions. Hilling, drilling and weeding, covering seeds, etc.



W. 7—Polished Steel Garden.....	60c.
W. 7½—Polished Steel Field.....	75c.



No. 70—Crescent Double-Bit Hoe, Blades 3¼ in.  
and 7 in..... 50c.

### ICE HOOKS.

No. 06 I—6 ft. Handle, Strapped ferrule.....	50c.
No. 07 I—7 ft. Handle, Strapped ferrule.....	65c.
No. 08 I—8 ft. Handle, Strapped ferrule.....	75c.

### SIDEWALK CLEANERS.

No. X 8—8-in. Steel Blade.... 50c

### MANURE FORK HANDLES

List price Retail price  
Per doz. Each.  
No. X—4½ ft. \$2.10      \$ .15

### HAY-FORK HANDLES.

No. X—5½ ft. \$1.95      \$ .15

No. X—6 ft. 2.25      .20

No. X—7 ft. 3.15      .25

No. X—8 ft. 4.50      .30

### RAKE HANDLES.

List price. Ret'l price.  
No. X—5 ft. \$1.50      \$ .15

### FIELD HOE HANDLES.

No. X—..... \$1.30      \$ .15

### SHOVEL HANDLES.

No. X—L.H.,

4½ ft..... \$3.00      \$ .20

No. X—D.H.,

3.50      .25

No. X—D.H.,

spade hds. 3.35      .25

## THE "VICTOR" Garden Cultivator.



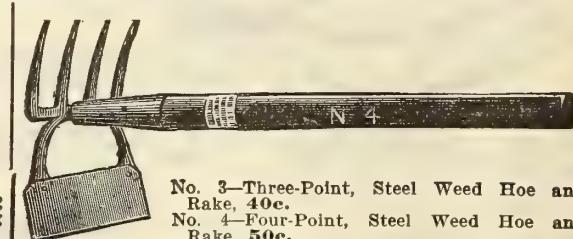
The Victor Garden Cultivator is popular because it is made of best material. The shanks and blades are extra good stock and are easily adjusted.

No. 90—Complete, on 5-foot handle, with 3½ blades. Each..... \$1.00



### GARDEN HOES

No.	Each.
G 02—Solid Steel Garden Socket Hoe, XX Handle..	45c.
G 2—Solid Steel Garden Shank Hoe, XX Handle..	40c.
R 1 or No. 20—Riveted Shank Garden Hoe.....	25c.
5—Solid Steel Lady's Shank Hoe, XX Handle.....	30c.
2 P—Two Point Solid Steel Weed Hoe.....	30c.
1 P.. Sharp Point Steel Blade Weed Hoe.....	25c.



No. 3—Three-Point, Steel Weed Hoe and Rake, 40c.  
No. 4—Four-Point, Steel Weed Hoe and Rake, 50c.



**SPROUTING HOES.**  
No. 64½—Heavy Handled Sprouting Hoe, 4½-in. blade,  
special temper..... 60c.

**CORNSTALK CUTTER HOE.**  
6-inch Cornstalk Cutter Hoes, Heavy, Solid Steel  
Shank, 30-inch Handles..... 40c.

**HEAVY HANDLED MATTOCK HOE.**  
Sharp pointed like a pick at one end, mattock at the  
other.  
No. 75—Heavy Handled Mattock Hoe, special tem-  
per, 60c.



**EUREKA WEEDERS.**  
No. E—Short Handle..... 25c.  
No. E L—Long Handle..... 35c.  
See also Page 54.

### GIBBS' POST-HOLE DIGGER.

Digs faster, works easier than any other on  
the market. All wearing parts have steel pins.  
Makes a hole of any desired diameter. First-  
class for tree planting.

Price..... \$1.75

### STEEL SOLID HANDLE POST SPADE.

Flattened at one end like a spade. The other  
end is sharpened and can be used as a crowbar.  
Light, durable, effective, cheap. Price, \$2.00.

## SHOVELS, SPADES, PICKS, ETC.



Plain Back.  
Long Handle,  
Round Point.  
Trade No. 542.



Hollow Back.  
Long Handle,  
Round Point.  
Trade No. 242.



D Handle, Round  
Point.  
Trade No. 732.



Hollow Back.  
Eastern Pattern or  
Coal Scoop.  
Trade No. 263.



Hollow Back.  
D Handle, Square  
Point.  
Trade No. 212.



D Handle Spade.  
Trade No. 552

Vulcan, High-Grade Crucible Steel, Long Handle, Round Point, No. 2 Shovel \$1.25

## PLAIN BACK SHOVELS.—Carbon Steel.

No.		Each.
542 G. & T.	—Long Handle, Round Point Shovels, Size No. 2	.90c.
512 G. & T.	—D Handle, Square Point Shovels, Size No. 2	.90c.
513 G. & T.	—D Handle, Square Point Shovels, Size No. 3	.95c.
514 G. & T.	—D Handle, Square Point Shovels, Size No. 4	\$1.00
532 G. & T.	—D Handle, Round Point Shovels, Size No. 2	.90c.
533 G. & T.	—D Handle, Round Point Shovels, Size No. 3	.95c.
742 Balto.	—Long Handle, Round Point Shovels, Size No. 2	.65c.
722 Balto.	—Long Handle, Square Point Shovels, Size No. 2	.65c.
732 Balto.	—D Handle, Round Point Shovels, Size No. 2	.65c.
712 Balto.	—D Handle, Square Point Shovels, Size No. 2	.65c.
713 Balto.	—D Handle, Square Point Shovels, Size No. 3	.70c.
714 Balto.	—D Handle, Square Point Shovels, Size No. 4	.75c.
No. 2	—Long Handle, Riveted Back, Round Point Shovels	.50c.

SNOW SHOVELS. Long Handle, Steel Socket....50c.

## PICKS, MATTOCKS AND GRUB HOES.



MATTOCK.



PICK.

Retail.

List.

No. 1—5 lb. Best Quality Warranted Steel Mattocks	.....	\$ .90	\$17.00
No. 1—6 lb. Best Quality Warranted Steel Mattocks	.....	1.00	.....
No. 2—5 and 6 lb. Best Refined Iron Mattocks (Steel Cutters)	.....	.70	.....
Nos. 1 and 2—Warranted Steel Grub Hoes	.....	.65	.....
No. 1—3½ lb. Best Refined Iron Grub Hoes (Steel Bit)	.....	.45	12.00
No. 2—4 lb. Best Refined Iron Grub Hoes (Steel Bit)	.....	.50	13.00
No. 1—6 to 7 lb. Best Quality Warranted Steel Railroad Picks	.....	.90	.....
No. 2—6 to 7 lb. Best Refined Iron Railroad Picks (Steel Point)	.....	.60	13.50

## PICK AND MATTOCK HANDLES.

No. XX—Best Quality, Selected, Second Growth Hickory Pick Handles	.....	25c.
No. X—Good Quality White Hickory Pick Handles	.....	20c.
No. 1—Good Quality White and Red Hickory Pick Handles	.....	18c.
No. 2—Mixed White and Red Hickory Pick Handles	.....	15c.

## HOLLOW BACK SHOVELS.—Carbon Steel.

No.	Each.	
242 Oriole	—Long Handle, Round Point Shovels, Size No. 2	.50c.
222 Oriole	—Long Handle, Square Point Shovels, Size No. 2	.50c.
212 Oriole	—D Handle, Square Point Shovels, Size No. 2	.50c.
213 Oriole	—D Handle, Square Point Shovels, Size No. 3	.55c.
214 Oriole	—D Handle, Square Point Shovels, Size No. 4	.60c.
215 Oriole	—D Handle, Square Point Shovels, Size No. 5	.65c.
216 Oriole	—D Handle, Square Point Shovels, Size No. 6	.70c.

## HOLLOW BACK SCOOPS.

No.	Size. Each.	
263 Oriole	—D Handle, Eastern Pattern or Coal Scoop, No. 3	.60c.
264 Oriole	—D Handle, Eastern Pattern or Coal Scoop, No. 4	.65c.
265 Oriole	—D Handle, Eastern Pattern or Coal Scoop, No. 5	.70c.
266 Oriole	—D Handle, Eastern Pattern or Coal Scoop, No. 6	.75c.
274 Oriole	—D Handle, Western Pattern or Grain Scoop, No. 4	.75c.
276 Oriole	—D Handle, Western Pattern or Grain Scoop, No. 6	.85c.
278 Oriole	—D Handle, Western Pattern or Grain Scoop, No. 8	.95c.

Long Handle Scoops same price as D Handle.

## PLAIN BACK SPADES.

No. 552 G. & T.	—D Handle Spades, Size No. 2	.....	Each, .90c.
No. 554 G. & T.	—Long Handle Spades, Size No. 2	"	.90c.
No. 752 Balto.	—D Handle Spades, Size No. 2	"	.65c.
No. 754 Balto.	—Long Handle Spades, Size No. 2	"	.65c.

## HOLLOW BACK SPADES.

No. 252 Oriole	—D Handle Spades, Size No. 2	.....	Each, .50c.
No. 254 Oriole	—Long Handle Spades, Size No. 2	.....	.50c.

Always Order Shovels and Spades by List Number.

## AXES.

In Axes we carry the best lines only. We aim to sell only those we know to be first-class in every respect and that have an established reputation. Retail price. G. & T. Celebrated Axes.

Beatty's Hatchets, Half Pattern and No. 2 Shingling.....Each .60c.

## AXE HANDLES. Each.

No. X—Extra Selected Second Growth, all White Hickory Axe Handles..... .25c.

No. 1—Selected White Hickory Axe Handles .20c.

No. 2—White and Red Hickory Axe Handles .15c.

No. 3—White and Red Hickory Axe Handles .12c.



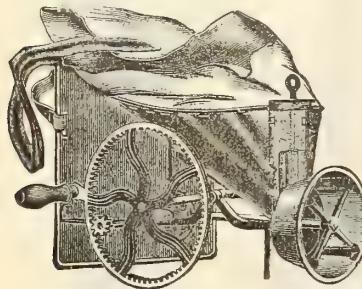
GRIFFITH & TURNER CO.

# CAHOON'S BROADCAST SEED SOWER.

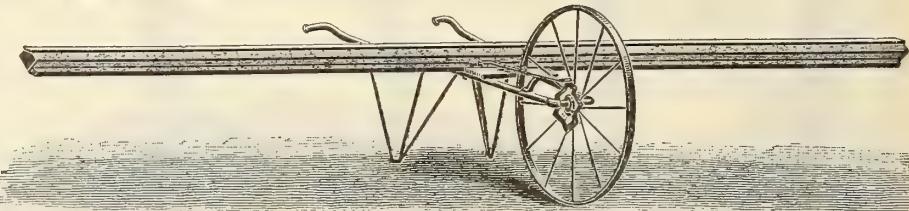
FOR SOWING CLOVER, TIMOTHY, MILLET, OATS, WHEAT, HEMP, BARLEY, RYE, RICE, BUCKWHEAT, ETC.  
STANDARD SEEDER OF THE WORLD—A MODEL FOR ACCURACY AND DURABILITY—MALLEABLE IRON FRAME—  
STEEL HOPPER AND GATE—BRASS DISCHARGER.

Factory Price, \$3.50. Our Special Price, \$3.00 Cash With Order.

The breadth of the cast will be according to the weight of the seed.—Wheat and Rye, 30 to 36 feet.—Oats, 21 to 25 feet.—Barley, 27 to 33 feet.—Clover, Millet, Hungarian Seed, 20 to 24 feet.—Hemp, 27 to 30 feet.—Timothy, 15 to 18 feet.



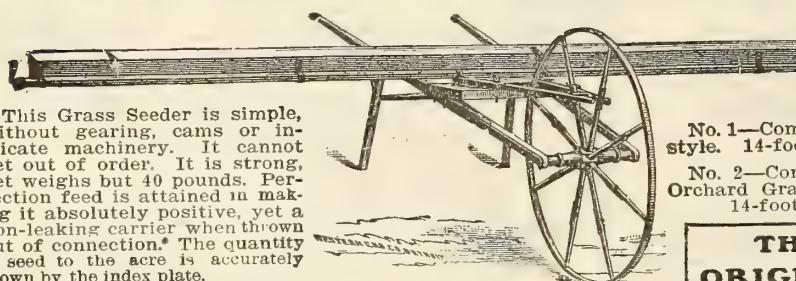
## CROWN WHEELBARROW GRASS SEEDER.



Made with wood or steel frame, with wire rope feeder; very strong, and will sow accurately the various clovers, timothy, etc. Furnished in either 14 or 16-foot lengths.

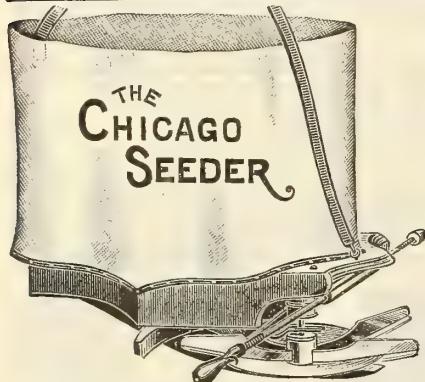
Price, 14-foot, \$6.00. 16-foot, \$6.25.

## THOMPSON'S CLOVER AND GRASS SEEDER.



This Grass Seeder is simple, without gearing, cams or intricate machinery. It cannot get out of order. It is strong, yet weighs but 40 pounds. Perfection feed is attained in making it absolutely positive, yet a non-leaking carrier when thrown out of connection.\* The quantity of seed to the acre is accurately shown by the index plate.

MANILLA ROPE FEEDER.



The CHICAGO SEEDER, like the CYCLONE, is a strictly first-class machine and will do equally well the same amount and kind of work. In fact, the machines are very similar, and what has been said of one as to quality and convenience is true of the other, as they differ only in the manner of operation, the CYCLONE operating with a crank and the CHICAGO with a backward and forward movement of a steel bow through a swivel guide. This machine is sometimes called the Fiddle Seeder. The CHICAGO has few wearing parts, is not liable to get out of order and is generally recognized by the trade as the best Bow Seeder made. Price, \$1.25.

SOWS 14 TO 16 FEET WIDE,  
ANY AMOUNT DESIRED  
PER ACRE,  
WILL SOW 20 TO 25 ACRES  
PER DAY.

No. 1—Complete Clover and Grass Seeder, the most popular style. 14-foot, \$6.00. 16-foot, \$6.25.

No. 2—Complete Seeder, with Double Hopper, sows Red Top, Orchard Grass, Blue Grass, Lawn Grass, as well as Clover. 14-foot..... \$8.00

## THE ORIGINAL IMPROVED CYCLONE.



Although this machine has been much improved and simplified in recent years, yet the same general principles which characterized it when sold for from \$10.00 to \$12.00 each are still retained. It differs materially and very advantageously from all other Sowers in having a slope feedboard with an oblong hopper which terminates in a metal edge, on which edge oscillates a feed plate which does not allow the seed to become clogged, but makes a positive force feed and insures a uniform flow and even distribution of seed. Anyone desiring a convenient, practical and an all-round first-class grain and grass seeder, a good large sower that will meet the most exacting demands, we cannot recommend the CYCLONE too highly. Price, \$1.50.

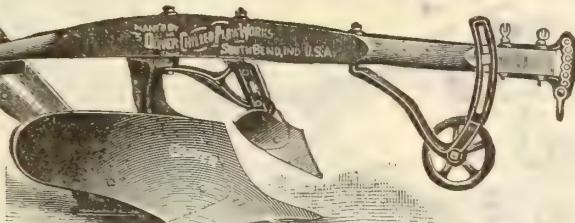
## National Broadcast Seed Sower.

It will sow wheat, rye, oats, rice, flax, millet, turnip seed, clover seed, grass seed, including light grasses; in fact, all kinds of seed, broadcast. Also plaster, fertilizer, salt, ashes, etc.

Price..... \$1.50

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

## GENUINE OLIVER PLOWS.



## OLIVER REPAIRS.

## MOULDBOARDS.

No.		STANDARDS.	
A-1 and A-2.	\$1.25	No. 40 XX.	\$3.50
B and B. Vin.	.75	" E.	3.00
10-0	2.00	" 3 X.	3.00
13 and 13 Vin.	2.25	" 98.	2.75
19	2.50	" 99.	3.00
20	2.75	" 119.	2.50
22	3.00	" 120.	2.75
40	3.00	" 140.	3.00

## LANDSIDES.

No.	No.	Per Pair and Single.	
A	\$ .40	40 and 40 XX.	\$.75
B and B. Vin.	.69	E.	.75
10-0	.60	98.	.75
13 and 13 Vin.	.65	99.	.75
19	.75	119.	.75
20	.75	120.	.75
22	.75	140.	.75
3 X.	.75		

HANDLE BRACES.

No. A.	25c.
" B-10-13-13 Vineyard, B.	
Vin.	30c.
All other Handle Braces	50c.

BEAMS.

No. A-B-B	Vineyard and 10.	\$1.00
No. 40 XX.		1.50
All other numbers, Wood.		1.25
No. 22, Iron.		4.25

CLEVISES.

Marked "A," for One-Horse Plows.	\$0.18
Marked "B," for Two-Horse Plows.	.28
Marked "D," for Three-Horse Plows.	.48
Shackles, Twisted.	.04
Wrenches.	.05
Guide Pins.	.03
Shackle Pins.	.03
Links, Two-Horse.	.05
Rings, One-Horse.	.05

ROLLING COULTERS.

We have Rolling Coulters to fit every kind of Oliver Plows upon which they may be required. See prices below.

11-inch, for one-horse plows, complete..... \$2.50

13-inch, for two or three-horse plows, complete... 3.00

HANGING COULTERS.

These are made to fit any of our Jointer Holders, and take the place of the Jointer where their use is desired.

All numbers, complete two-horse, except 7-L and 60... \$2.00

All numbers, complete, one-horse..... 1.50

Holders, same as for jointers 1.00

WHEELS.

Straight standard, one-horse, complete	\$0.75
Brace, standard, two-horse, complete	1.00
Standards, one-horse, straight	.40
Standards, two-horse, all kinds	.50
Wheels only, one-horse	.40
Wheels only, two-horse	.50
Hubs	.10
Center pins or hub bolts	.05
Wheel caps or sand bands	.05

Note.—In ordering wheels, say if for right or left hand wood or steel beam plows.

All Polished Points each, add extra 10 cents.

Non-Reversible Shares and Slips same as Reversible.

Bowers' Slips same as other slips.

Where blank spaces occur parts are not made, hence prices are not given.

Other parts not enumerated, prices furnished on application.

Note.—A clevis and wrench are included in the foregoing prices, also an extra share is included in prices of all plows fitted with cast shares. Wheels and jointers are not included.

Note.—A Clevis, Wrench and an extra share are included in prices for Plows fitted with Cast Shares, but wheels and jointers are not.

## PLOWS—PRICES.

No. A-1 and A-2, Right Hand only	\$4.50
WOOD BEAM—RIGHT AND LEFT HAND	
B, Right Hand only	6.00
B Vineyard, Right Hand only	7.50
" 10-0	7.00
" 13	8.00
" 19	8.50
" 20	9.00
E 1.	9.50
" 40	9.50

No. 40 XX.	10.50
" 22, Chilled, Iron Beam, Right and Left Hand	11.00
" 3 X, Chilled, Iron Beam, Right Hand only	9.50

## OLIVER COMBINATION PLOWS.

WOOD BEAM—RIGHT AND LEFT HAND	
No. 120—All Chilled	\$8.50
" 140—All Chilled	10.00

## OLIVER SPECIAL PLOWS.

No. 1—Road and Grading Plow, all steel, with Standing Coulter and Gauge Iron or Wheel.	\$30.00
The Oliver Subsolar, best of its kind, with Wheel.	14.00

## OLIVER HILLSIDE PLOWS.

Made with steel and chilled mouldboard and cast point, and is well equipped in all respects for first-class work.

In addition to its excellent qualities as a hillside Plow, it also works admirably in level ground, and having been thoroughly tried, we do not hesitate to recommend it highly.

No. 52, Steel Mouldboard, Cast Share, Wood Beam, One Horse.	\$10.00
No. 53½, Chilled Mouldboard, Cast Share, Two Horse.	9.50
No. 57, Steel Mouldboard, Cast Share, Wood Beam, Two Horse.	12.00
No. 58, Chilled Mouldboard, Cast Share, Iron Beam, Two Horse.	9.00

## JOINTERS.

Decidedly the most important of all plow attachments, and can be used on most of our plows. The plowman who once uses a jointer will never want to do without it.

No. D—Chilled, for one-horse plows.	\$1.50
No. 140—Chilled, for Nos. 120, 125 and 140 plows.	2.00
No. 2—For two and three-horse plows.	2.00
Jointer Points, chilled, all numbers.	.15
Jointer mouldboards.	.35

One-horse jointer holders.	.75
Two-horse jointer holders.	1.00
One-horse jointer standards.	.50
Two-horse jointer standards.	.50

Note.—In ordering, say whether for wood or steel beam, right or left hand plows.

## COMBINATION PLOW REPAIRS.

Numbers.	Solid Cutter Shares.	Solid Plain Shares.	Cutter Oliver Slip.	Nose Share.	Plain Oliver Slip.	Nose Share.	Chilled Reverses.	Chilled Wings.	Chilled Levers.	Slip Shares.
A	20	18	25							
B	25	20	25							
B. Vin.	20	25	25							
10-O	25	35								
13-	25	35								
19-	30	40								
20-	30	40								
22-	40	35	45							
3-X.	30	45								
40-	35	45								
40-XX.	45	45								
E.	35	45								
98.	40	40		25	15					
99.	40	40		25	15					
119.	45	45		32	22					
120.	45	45		32	22					
140.	45	45		32	22					
8X.	200.	200.		40.	20.					

## HILLSIDE PLOW REPAIRS.

Plow Nos.	Chilled Mould-board Lugs.	Steel Mould-board Lugs.	Handle Lugs.	Landsides.	Cast Shares.	Set Handles.	Beams.	Clevises.	Wrenches.	Wheels.	Jointers.
52	\$2.75	\$2.75	\$ .65	\$ .50	\$1.75	\$1.00	\$ .20	\$ .15	\$ .75		
53½	\$3.00	2.50	.75	.40	1.75	1.00	.35	.15	1.00		
57	3.00	4.00	3.25	.75	.50	2.00	.35	.15	1.00	\$2.00	
58	2.00			.60	.50	1.25	4.00	.25	.15	1.00	

## BOLTS.

For shares, mouldboards and landsides, jointer and coulter standard No. 5, end of handle brace, each.... 3c.

For jointer and coulter holder, No. 6, wheel standards (straight or hook), end of beam, wheel hub, No. 14-A clevis bolts, Nos. 20 and 40 steel beam and landside bolts, No. 99 S. B. jointer holder bolts each..... 5c.

Long handle round bolts..... 7c.

For all standards and beams, spreading bottom of handles, Nos. 140 and 125 shin bolts, No. 40 S. B. jointer holder to block bolt, steel set-screws, all sizes, No. 99 S. B. standard bolts, 9-16x2¾, each..... 7c.

For standards and beams, 403, 404 and 405, wood beam, 10c.

Cast Washers Are Not Included in Prices for Bolts.



## Oliver Steel Beam Plows.

All the strong features of the Oliver Wood Beam are incorporated in the Steel Beam plow. Light draft is one of its strong points. Scouring in all kinds of soil is another equally valuable requisite.

We cannot too highly recommend the Oliver Steel Beam Plow. It makes friends wherever sold.

	Price.
No. B., R. H...	\$7.00
No. 10-0. R. & L	8.00
No. 13, " ..	9.00
No. 19, " ..	9.50
No. 20, " ..	10.00
No. 40.....	16.50

Shares, lands and moulds, same price as wood beam. Shares and moulds are interchangeable.

WRITE FOR  
SPECIAL PRINTED MATTER ON  
**SULKY AND GANG PLOWS**

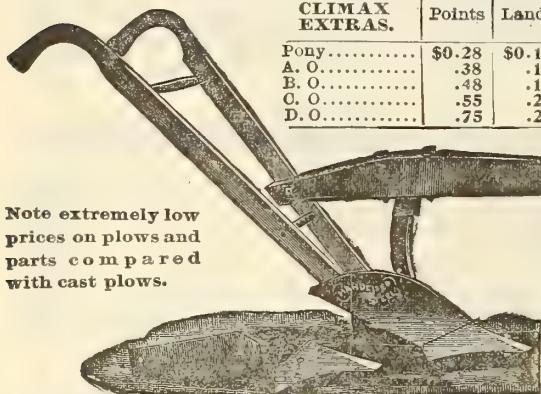
## Oliver Sulky Plow No. 11.

Light, durable and effective. Simple and novel device for turning. Plows the most difficult soils and does it well. Can be used with or without tongue. Depth easily regulated. Turns square corners without lifting out of ground. Made in both right and left hand.

No. 11 Sulky Plow, fitted with No. 40 bottom, tongue, neck yoke, three-horse evener, jointer and weed hook..... \$47.00  
If fitted with Rolling Coulter instead of jointer, add to price..... 1.00  
For special Four-Horse Evener, add..... 2.00

With all bottoms fitted with cast shears an extra share is included in price.

## Climax Steel Plows.



Note extremely low prices on plows and parts compared with cast plows.

CLIMAX EXTRAS.	Points	Lands	Moulds	Beams with Clevis	Handles per pair, less bolts	Wood Beam Clevis
Pony.....	\$0.28	\$0.15	\$0.35	\$0.85	\$0.60	\$0.18
A. O.....	.38	.17	.45	.85	.60	.18
B. O.....	.48	.17	.60	1.00	.60	.20
C. O.....	.55	.25	.70	1.50	.75	.30
D. O.....	.75	.25	.85	1.50	.75	.30

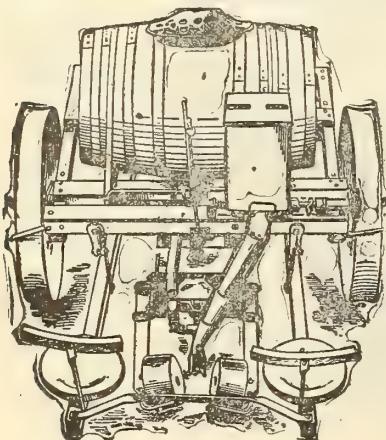
These plows take a much higher degree of earth polish than is ordinarily found in cast plows that are not chilled, and consequently will scour in an ordinary clay soil.

They are all made with steel standard and cap, sloping land-slide and adjustable slip heel.

**PONY.**—Light 1-horse, 2-in. cut, wood beam. Very popular. Price, with extra steel point, weight 37 lbs. .... \$2.50  
**A.O.**—1-horse, 8-in. cut, wood beam, price with extra steel point, wt. 41 lbs. .... \$3.00  
**B.O.**—1-horse or light 2-horse, 9-in. cut, wood beam. Designed for either stubble or light sod, doing both kinds of

work in the most satisfactory manner. Very light draft. Price, with extra steel point, wt. 43 lbs. .... \$3.50  
**C.O.**—2-horse, 10-in. cut, wood beam. Price with extra steel point, wt. 63 lbs. .... \$4.50  
**D.O.**—2-horse, 11-in. cut, wood beam. It turns its furrow slice perfectly. Price, with extra steel point, wt. 66 lbs. .... \$5.50

## NAGLEY'S TRANSPLANTING MACHINE. PRICE, \$55.00



This transplanter has been fully tested on all kinds of soil, and can be operated and worked satisfactorily on any ground on which you wish to transplant tobacco, cabbage, celery, tomatoes, etc.

The Automatic Check Valve Device is Furnished with all Machines, but a Continuous Stream is Always Recommended.

**Directions**—Keep heavy oil on check valve. 1st. Use martingales or breeching when hitching to transplanter.

2d. Prepare your ground in good condition. 3d. Regulate the pressure iron so that the right pressure is attained on loose or heavy soil.

The raising or lowering the rollers regulates the depth the plow should run in the ground.

4th. Adjust the footrests for the dropper boys' comfort.

5th. The two dropper boys set plants in the heel of the plow alternately.

6th. Drive horses slow and regular, and in a short time the boys can do good work.

7th. If you have long and short plants, transplant the long ones, then lower the packers for the short ones.

8th. The water is regulated by turning the upper faucet.



## MASTERS RAPID PLANT SETTER.

All Kinds of Plants, Such as Cabbage, Tobacco, Tomatoes, Cauliflower, Strawberries, Sweet Potatoes, Sugar Beets, Etc.

The only Hand Mechanical Plant Setter on the market, is built on scientific principles throughout. Its conical jaws are made of heavy sheet steel and the main body or water reservoir and plant tube of heavy tinned plate. The water valve is of brass with rubber packing. The valve rod and trip spring are of steel wire; thumb button and other fittings are also of brass. The machine is well put together with rivets and solder and should last for years.

**PRICE, EACH, \$3.75.**

## TESTIMONIALS.

The Masters Planter I purchased has worked very satisfactorily, and have obtained better results from the plants set out by your machine than from those planted by hand with season.

F. E. WRIGHT.

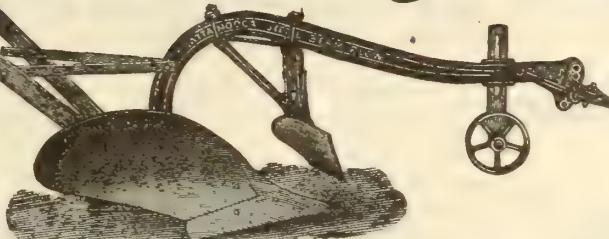
Fork, Md., May 27, 1905.

We have used the Masters Plant Setter and we find it a great labor saver. We cheerfully commend it to be as represented.

FRANK. and GEORGE DAVAGE,  
Hartley, Md.

# Chattanooga Chilled Plows.

**STEEL  
BEAM,  
LOW  
FRONT.**



Cut represents two and three-horse plow.

**PRICES  
CHATTANOOGA PLOWS  
AND EXTRAS.**

Nos.	Capacity.	Wt. lbs.	Price.	Shares Plain.	Stony Ground or Soil Cutter Shares	Shares Cutter.	Shares Slip Nose	Slips.	Landsides.	Mouldboards.	Steel Beams, & L.	Wood Beams.	Handles with Braces, Per set.	Standards.	
62	1-Horse, Wood Beam.....	5x9	55	\$4.25	...	...	...	...	...	...	1.00	1.00	...	...	
62	1-Horse, Steel Beam.....	5x9	65	5.25	.20	...	...	.30	.08	.45	1.50	2.00	2.00	1.35	
72	1-Horse, Steel Beam.....	5x9	70	5.75	...	...	...	.32	.08	.45	1.50	2.00	2.00	1.35	
63	Very Light 2-Horse, Steel Beam	8x10	100	8.50	...	...	.35	.25	.35	.10	.60	2.25	2.50	2.00	2.25
64	Light, 2-Horse, Steel Beam....	9x11	120	10.00	...	.40	.30	.40	.10	.85	2.75	3.00	2.40	2.50	2.50
65	Medium, 2-Horse, Steel Beam..	10x12	125	11.00	...	.40	.35	.45	.10	.85	3.00	3.00	2.40	2.50	2.50
66	Heavy, 2-Horse, Steel Beam....	12x14	150	12.00	...	.40	.40	.50	.10	.85	3.25	3.50	2.40	2.50	2.50

Rolling Coulters, complete, \$3.00; Wheels, complete, \$1.00; Joints, complete, \$2.00; Bolts for Shares, Landsides, Moulds, 3c.; Rear Beam Bolts on 1-Horse Plows, 5c. All other Beam Bolts, 10c.

Points of Merit: 1st. Low front, similar to Steel Pattern Plows; will not collect trash.

2d. Handle not bolted to mould, but to standard and brace that is attached to beam, thus preventing breakage of many moulds.

3d. Brace or rod between landside and mould, giving additional strength where it is most needed, making plow absolutely rigid.

4th. Special bolts which will not turn and can be readily taken out. All the base bolts are alike and interchangeable; only one kind necessary to keep on hand.

5th. Points are fastened on with two bolts; never fails; gives satisfaction.

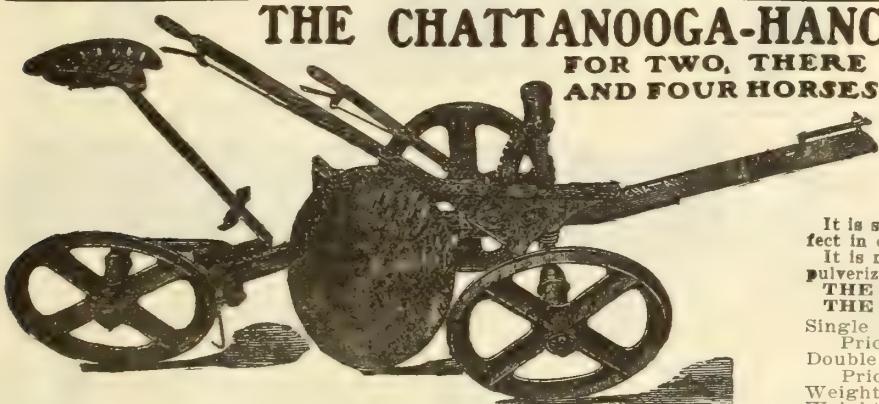
## Chattanooga One-Horse Plows

The one-horse plows as priced below are a little different from design shown in cut. The No. 72 is the factory's latest pattern.

**PRICES:**

No. 62—Wood Beam.....	\$4.25
No. 62—Steel Beam.....	5.25
No. 72—Steel Beam.....	5.75

## THE CHATTANOOGA-HANCOCK DISC PLOWS, FOR TWO, THREE AND FOUR HORSES.



They are made on the same frame and act on the same principle, and what is said about the single disc pertains to the other. It is only a matter of number of horses. If 100 pounds be added to the draft of the single it will cover the double. It will be seen the difference in draft is comparatively slight.

We guarantee our Disc Plow to do good work, not only in hard, dry and sticky ground, but to do good work in any fallow ground, either clean or trashy; in short, to be good anywhere, at any time, except turf land, and when plowing can be done.

## Disc Plow Extras.

In ordering extras always be sure to give name or number, or send the piece to be duplicated or a correct drawing. Attention to this seemingly small matter will avoid delay.

Double Disc attachment for single disc plow.	Each. \$16.50
Nos. 1 and 2 discs.....	\$3.00
Scraper blade.....	.50
Scraper, complete.....	1.00
No. D 116 scraper standard.....	.50
No. D 119 scraper arm.....	.50
No. D 122 L. H. lever, complete.....	1.25
No. D 142 R. H. lever, complete.....	1.50
No. D 134 R. H. lever, complete.....	1.50
Disc bolt, with nut.....	.30
No. D 113 disc bolt nut.....	.10

**PRICES.**

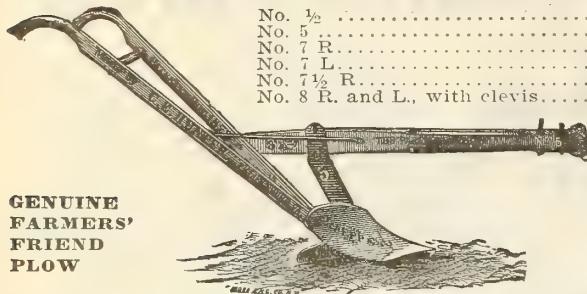
Disc box bolt.....	Each. .10
No. D 101 disc box.....	1.50
No. D 102 disc holder or journal.....	1.50
No. D 143 tongue bracket, 1901 style.....	1.00
No. D 144 R. H. quadrant, 1901 style.....	1.00
No. D 130 hub washer, outside.....	.10
No. D 127 wedge.....	.25
No. D 137 malleable wrench.....	.15
No. D 138 malleable wrench.....	.25
Other extras not named on this list can be furnished on application. Do not keep them in stock.	



## Minor &amp; Horton High Standard Plows.

## PRICES OF GENUINE FARMERS' FRIEND PLOW.

No. 1½	\$2.75	No. 8 R. and L., with rod	\$6.25
No. 5	2.75	No. 9 R. and L.	6.25
No. 7 R.	4.25	No. 1 Hill Side.	4.00
No. 7 L.	4.75	No. 2 Hill Side.	5.25
No. 7½ R.	4.75	No. 3 Hill Side.	5.50
No. 8 R. and L., with clevis.	5.75		

GENUINE  
FARMERS'  
FRIEND  
PLOW

## Hampton No. 1 C or Jersey and Attachments.

With every Hampton No. 1 C. Plow is sent three extra moulds and one extra share and wrench, as follows:

No. 1 B, Fig. 3 in cut—A regular one-horse mouldboard used on all regular No. 1 plows.  
Cabbage, Fig. 2 in cut, smaller than No. 1 B—Particularly adapted to the second cultivation of all crops.

Truck, Fig. 1 in cut—A small mouldboard suitable for the early cultivation of all truck.

All of above are included in the price, \$4.00

## EXTRAS.

Fig. 7 in cut—Cutter or sod land point. .50  
Fig. 8 in cut—Potato-digging attachment .80  
Fig. 6—Double mould. 2.25

## HAMPTON BOY.

Price, with truck and mouldboard, wrench and point. .50

## HAMPTON NO. 1 REGULAR.

This style is similar to the Boy, but larger. Attachments are: Truck mouldboard, point and wrench. Price, complete. .30

## HAMPTON NO. 5.

This is a medium two-horse plow, very light draft, and scours thoroughly. Front wheel and jointers furnished when desired extra.

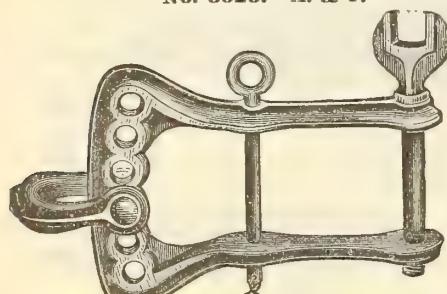
Price, plain plow. .575

## Liberal discount to the trade.

Casting on all Hampton Plows...5c. per lb.

## Malleable Clevises

No. 3525. A. &amp; E.



## No. 3500.

2 in. beam; 5¾ in. extreme length; 3 in. from center of wrench to end of beam. Patent wrench.

For use on Girl Champion and similar cast plows.

Price.....15c.

FOR  
CAST  
PLOWS

1½x2 inches, 5 feet long, per pair.....	25c.	1¼x2½ inches, 7 feet long, per pair.....	45c.
1¼x2½ inches, 5 feet long, per pair.....	30c.	1½x2½ inches, 5 feet long, per pair.....	50c.
1¼x2½ inches, 5½ feet long, per pair.....	35c.	1½x2½ inches, 5½ feet long,.....	55c.
1¼x2½ inches, 6 feet long, per pair.....	40c.	FINISHED HDLS. EXTRA, PER PAIR 2c.	

## No. 3485.

2 in. beam; 5½ in. extreme length; 3 in. from center of wrench to end of beam. Patent wrench.

For use on "Boy" Dixie and similar cast plows.

Price.....15c.

## No. 3490.

2 in. beam; 6½ in. extreme length; 3½ in. from center of wrench to end of beam. Patent wrench.

For use on Southern cast plows.

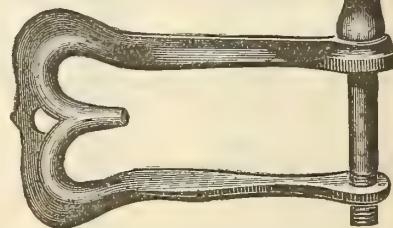
Price.....15c.

MALLEABLE PLOW  
LINKS.

No. 3645.  
3 in. long, 2½ in. wide.  
Price.....5c.

END CLEVIS, OR  
SHACKLE.

No. 3355 B.  
¾ in. inside measure;  
3 in. extreme length.  
Price.....10c.



## No. 3515 A.

2 in. beam; 3½ in. from center of wrench to center of pin; 6¾ in. extreme length. For use on Hampton Boy and Hampton No. 1 Plows. 20c.

## No. 3525 A.

2½ in. beam; 2½ in. from center of wrench to center of pin; 6½ in. extreme length; 6 holes; shackle and pin. For use on No. 5 F. and similar cast plows. Price.....20c.

## No. 3525 F.

2½ in. beam; 3½ in. from center of wrench to center of pin; 7½ in. extreme length; 6 holes; shackle and pin. For use on No. 7 F. and similar cast plows. Price.....25c.

# REPAIRS FOR ROLAND CHILLED PLOWS

No. on slip nose.	Number.	Mould boards. Bowers' slip nose shares.	Slip nose.	Land sides.	Solid shares.	Cutter.	Standard.	Malleable standard for jointer.	Malleable socket for jointer.	Chilled mould board for jointer.	Share for jointer.	Malleable clamp for jointer.	Shifter iron.	Pair handles complete.	One handle finished.	Clevis and loop.	Wheel standard	Wheel.	Wheel axle.	
E 4 and E 3	3	\$ 0.45	\$ 0.10	0.75	\$ 0.35	\$ 0.25	\$ 0.75	\$ 1.00	\$ 0.40	\$ 0.20	\$ 0.25	\$ 0.40	\$ 0.15	\$ 1.75	\$ 0.50	\$ 1.25	\$ 0.40	\$ 0.50	\$ 0.25	
43	3	.45	.10	.75	.35	.25	.75	1.00	.40	.20	.25	.40	.10	.15	1.75	.50	1.25	.40	.50	.25
23	2	.45	.10	.75	.35	.25	.75	1.00	.40	.20	.25	.40	.10	.15	1.75	.50	1.25	.40	.50	.25
C 3	2	.45	.10	.75	.30	.25	.75	1.00	.40	.20	.25	.40	.10	.15	1.75	.50	1.25	.40	.50	.25
D 3 and D 4	2	.45	.10	.75	.30	.25	.75	1.00	.40	.20	.25	.40	.10	.15	1.75	.50	1.25	.40	.50	.25
13 and 13 A	2	.40	.10	.65	.30	.20	.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
B 3	1	.35	.10	.60	.20	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
A 3	1	.35	.10	.40	.20	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

## Repairs for Wiard Plows

Nos.	Kind.	No. Horse.	Price.		
			Shares.	Lands.	Moulds.
62	R. H. Only	1 Horse	\$ 0.25	\$ 0.25	\$ 0.75
13	"	1 "	.35	.50	1.50
10	"	1 "	.35	.50	2.00
19	"	2 "	.35	.75	3.00
16	"	2 "	.40	.75	3.00
18	"	2 "	.40	.75	3.50
26	"	2 or 3 Horse	.40	.75	3.50
26½	"	2 Horse	.40	.75	3.25
27	L. H.	2 "	.40	.75	3.25
28	"	2 "	.40	.75	3.50
116	Hillside	2 "	.55	.....	3.00
126	"	2 "	.55	.....	2.50
130	"	2 "	.55	.....	2.50

## Repairs for South Bend Plows.

Nos.	Kind.	No. Horse.	Price.		
			Shares.	Lands.	Moulds.
62	Solid	1 H. R. H. only	\$ 0.20	\$ 0.30	\$ 1.00
1 B	"	1 "	.35	.40	1.75
2	"	2 Horse	.35	.75	2.50
3	"	2 "	.35	1.00	3.00
4	"	2 "	.40	1.00	3.25
10	"	2 "	.40	1.00	3.50
15	Slip	2 "	.40	1.00	3.50
3	"	2 "	.45	.....	.....
4	"	2 "	.45	.....	.....
10	"	2 "	.50	.....	.....
15	"	2 "	.50	.....	.....

Jointers, complete, \$2.00. Wheels, complete, \$1.00. Rolling Coulters, \$3.50. Handles, single, all numbers, 50c. each. Other extras not named here can be furnished; price on application. Standing Coulters, \$2.00. Slip Points, each, 10c.

## EXTRAS FOR IRON BEAM SYRACUSE PLOWS.

Nos.	Common shares.	Cutter shares.	Cast Lands.	Moulds, chilled.	Beams.	Wood Beams.	Shins.
3-78	R. H. Only	2 Horse	\$ 0.35	\$ 0.45	\$ 0.65	\$ 3.00	\$ 3.75
2-78	"	2 "	.40	.50	.70	3.25	.75
1-78	"	2 "	.40	.55	.75	3.25	.425
10-78	"	2 "	.45	.50	.85	3.75	4.75
20-78	L. H.	2 "	.40	.45	.75	3.25	.425
30-78	"	3 "	.45	.55	.85	3.75	.475

## EXTRAS FOR STEEL BEAM SYRACUSE PLOWS.

Nos.	Common shares.	Cutter shares.	Cast Lands.	Chilled moulds.	Beams.	Standards	Slip shares.	Slip points.
7	R. H. Only	2 Horse	\$ 0.40	\$ 0.50	\$ 0.80	\$ 3.25	\$ 3.50	\$ 2.75
8	"	2 "	.40	.50	.75	3.25	3.50	.50
15	"	3 "	.45	.55	1.00	3.25	3.50	3.00
21	L. H. Only	2 or 3 Horse	.40	.50	.85	3.25	3.50	3.00
35	"	3 Horse	.45	.55	1.00	3.75	4.00	3.50

Jointers, complete, chilled, \$2.00. Wheels, complete, \$1.00. For Heavy Shares, add 5c. each. Jointer Points for any of above Syracuse Plows, 20c. Syracuse Base Bolts, 3c.

## Repairs for Syracuse Contractors Plows.

Nos.	Cutter shares.	Shares.	Lands.	Moulds.	Beams.	Standards.	Slip shares.	Slip points.
44	R. H. Only	1 Horse	\$ 0.20	\$ 0.40	\$ 1.35	\$ 1.00	\$ 1.35	.....
50	"	1 "	.20	.50	1.40	1.25	1.75	.....
51	"	1 "	.25	.55	1.85	1.25	2.00	.....
52	"	1 "	.25	.65	2.25	1.25	2.25	.....
53	"	1 or 2 H.	.30	.65	2.50	1.25	2.25	\$ 0.25
54	Light 2	.45	.35	.75	2.75	1.50	2.50	.30
55	Med. 2	.....	.....	.....	.....	.....	.....	.10
56	Reg. 2	.50	.40	.85	3.25	1.50	2.75	.35
57	2 or 3 H.	.50	.40	.85	3.25	1.50	2.75	.50
95	L. H.	45	.35	.80	3.00	1.50	2.50	.30
96	"	50	.40	.85	3.25	1.50	2.75	.35
97	"	50	.40	.85	3.25	1.50	2.75	.50
501	"	40	.85	3.25	1.50	2.75	.....	.10
502	"	40	.85	3.25	1.50	2.50	.....	.10
503	"	35	.80	3.00	1.50	2.50	.....	.10
601	R. H. Only	.....	.40	.85	3.25	1.50	2.75	.....
602	"	.....	.40	.85	3.25	1.50	2.50	.50
603	"	.....	.35	.80	3.00	1.50	2.50	.45

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

# The Everlasting Tubular Steel Doubletrees. Pattern No. 105.

PLOW DOUBLETREES  
IN SETS, THREE SIZES.



Singletrees With Hooks or Rings for Traces.



No. 6—For light plowing in moss soil, length 33 inches and 28 inches; factory list, dozen sets, \$36.00. Our special price, per set, \$3.00.

No. 1—For regular plowing in clay soil, length 36 inches and 30 inches; factory list, dozen sets, \$39.00. Our special price, per set, \$3.25.

No. 2—For extra heavy plowing, street making, etc., length 36 to 38 in. and 30 to 32 in.; factory list, dozen sets, \$51.00. Our special price, per set, \$4.25.

**Singletrees for Above, Pat. No. 107.**  
24 inches; factory list, dozen, \$8.00. Our special price, 67c. each.

26 inches; factory list, dozen, \$8.40. Our special price, 70c. each.  
28 inches; factory list, dozen, \$8.70. Our special price, 73c. each.  
30 inches; factory list, dozen, \$10.00. Our special price, 84c. each.  
32 inches; factory list, dozen, \$14.20. Our special price, \$1.20 each.

**Steel Farm Wagon Doubletrees  
IN SETS COMPLETE  
PATTERN No. 102.**



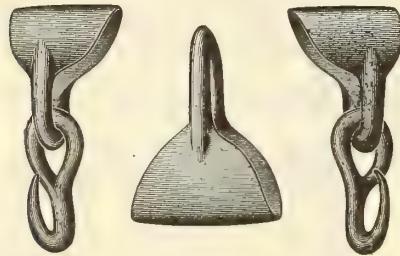
No. 2—Capacity 4,000 pounds; evener, 46 to 48 inches; Singletrees, 33 to 34 inches; factory list, dozen sets, \$63.00. Our special price, per set, \$5.25.

No. 3—Capacity 7,000 pounds; evener, 43 to 45 inches; Singletrees, 34 to 37 inches; factory list, dozen sets, \$72.00. Our special price, per set, \$6.00.

**TRIPLE TREES FOR WALKING OR SULKY PLOWS.**  
Prices furnished on application, f. o. b. factory. Not carried in stock.

**SPECIAL DISCOUNT FOR CASH ON ALL THE ABOVE TUBULAR GOODS.**

## SETS OF WELDED CLIPS.



CLIPS FOR DOUBLETREES.

Our No. 36, Factory No. 77—Southern; one  $\frac{5}{8}$ -in. Center Clip and Hook, welded, with  $\frac{1}{2}$ -in. hook and two  $\frac{1}{2}$ -in. End Clips, welded, as used on our 36-in. Southern Doubletrees. List, \$3.30. Set, 25c. Dozen Sets, \$2.50.

Our No. 36 and 40, Factory No. 76—Pennsylvania; one  $\frac{3}{4}$ -in. Center Clip and Hook, welded, with  $\frac{3}{4}$ -in. Hook and two 9-16 in. End Clips, welded, as used on our 36 and 40 inch Heavy Pennsylvania Doubletrees. List, \$5.30. Set, 35c. Dozen Sets, \$3.50.

CLIPS FOR SINGLETREES.

Our No. 26, Factory No. 75—One Center  $\frac{1}{2}$ -inch Clip, welded, and two  $\frac{3}{8}$ -inch End Clips, welded, with 5-16 inch Hooks, as used on our 28-inch Singletrees. List, \$2.10. Set, 15c. Dozen Sets, \$1.25.

Our No. 30, Factory No. 74—One Center 9-16 inch Clip, welded, and two 7-16 inch End Clips, welded, with  $\frac{3}{8}$ -inch Hooks, as used on our 30 and 32-inch Heavy Singletrees. List, \$3.00. Set, 20c. Dozen Sets, \$2.00.

Our No. 34, Factory No. 73—One Center  $\frac{5}{8}$ -inch Clip, welded, and two 7-16 inch End Clips, welded, and  $\frac{3}{8}$ -inch Hooks, as used on our 34 and 36-inch Heavy Singletrees. List, \$3.20. Set, 25c. Dozen Sets, \$2.25.

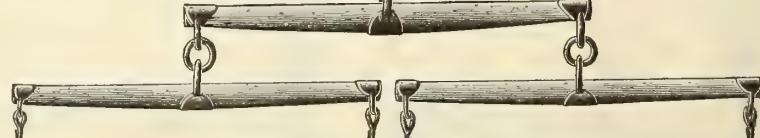
## U SINGLE, DOUBLE AND TRIPLE TREES.



The lightest and strongest Steel Trees on the market. Hook is so constructed that the trace will not unhook.  
24-in., 40c.; 26-in., 50c.; 28-in., 60c.; 30-in., 70c.; 36-in. double, \$1.00.

**STEEL TRIPLETREE SETS, COMPLETE, PER SET OF 6 PIECES, \$5.00.**

## Wood Single, Double and Triple Trees.



26-inch Southern Singletrees....	25c.	Wagon Singletrees, 36 inches....	\$.75
28-inch Extra Nailed Singletrees....	40c.	36-inch Southern Doubletrees....	.75
30-inch Heavy Singletrees.....	50c.	36-inch Heavy Doubletrees....	\$1.00
32-inch Heavy Singletrees.....	60c.	40-inch Heavy Doubletrees....	1.10
34-inch Heavy Singletrees.....	60c.	Extra Heavy Tripletrees....	2.00
36-inch Heavy Singletrees....	75c.		



OTAL LAP OR OPEN RINGS.  
 $\frac{1}{2} \times 2\frac{1}{2}$ , 8c. each;  $\frac{5}{8} \times 2\frac{1}{2}$ , 9c. each;  $\frac{5}{8} \times 3$ , 10c. each.

### CHAIN REPAIR LINKS.

10-2, 15c. doz.; 10-1, 20c. doz.

### SIDE OPEN LAP LINKS.

$\frac{1}{2} \times 2\frac{1}{2}$ , 8c. each;  $\frac{5}{8} \times 2\frac{1}{2}$ , 9c. each;  $\frac{5}{8} \times 3$ , 10c. each.

## WOOD NECK YOKE.

**No. 6, IRONED COMPLETE.**

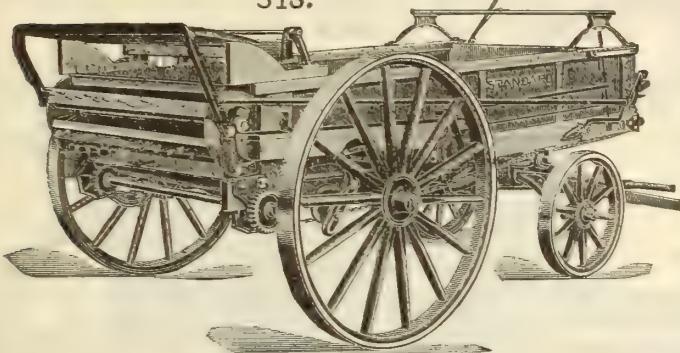
Price 75c.

**T**HIS distributor has same fertilizer feed as used on Hench & Dromgold Corn Planters, except that it is much larger; it has given perfect satisfaction wherever used; is comprised of only five pieces, so arranged as to prevent fertilizer from arching. We also have under the planter a funnel-shaped iron, which scatters the fertilizer as desired.

Three chain wheels are furnished with each machine. It will sow or distribute evenly any kind of commercial fertilizer and in any quantity desired, from the smallest to the largest amount required per acre.

## Standard Manure Spreader.

S13.



STANDARD FEATURES.

It is more than a spreader; pulverizes thoroughly and distributes uniformly; strongest and least complicated; spreads full width, 4 feet 6 inches; special beater and hood insure full width spreading; successful rake prevents spreading in bunches; Has a combined end gate and hood; no confusing work for driver; one motion of one lever puts entire machine in operation; apron returned by team; long, comfortable seat and footboard; levers easily reached and handled by boy; the Standard Spreader always under driver's control; load feeds to beater just as desired, as apron is always locked and feed positive; no racing of apron on inclines or hillsides; lever at seat changes feed instantly; has six changes of feed; unusually simple and positive feed device; can temporarily stop spreading without stopping team; two apron chains to prevent binding on sides of frame; strongest frame and box construction; only spreader with three rear shafts entire width; no stub shafts to cramp gears; strongest wheel; longest wheel hub; easy draft; front truck under box; team close to load; narrow front truck; no whipping of pole; front end board insures uniform spreading of entire load; successful chain tightener; box easy to load; heavy axles; just what truckers need. The criticism to end gates is that they bind on load and are very difficult to lift and that they serve no purpose excepting as an end gate. The Standard end gate is made of steel and moves away from load about an inch before raising, so that there is no contact with the load.

The end gate not only lifts easily, but, when raised, forms a hood over beater to prevent the load being thrown into air and blown into windrows. This hood is another reason why the Standard can spread full width and uniformly.

**Axles.**—We use 1 15-16 inch front axle and 2 1-16 inch high carbon cold rolled steel axle in rear.

**Wheels.**—The Standard has the strongest wheel used on any spreader. Front wheels 30 inches; rear wheels 52 inches. Tires 3, 4 or 5 inches. Our felloes and spokes are unusually heavy and our wheel hub is about an inch longer than other makes. This prevents dishing of wheel and cramping of gears and lessens draft.

### SIZES AND EQUIPMENT.

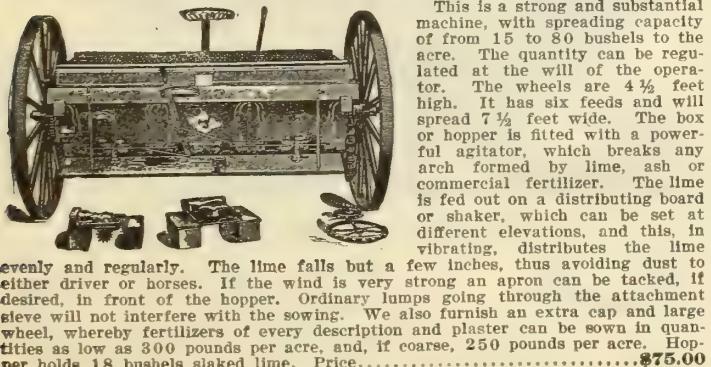
40-bushel, with Two-Horse Evener, 3-inch front tire, 4-inch rear tire...	\$110.00
50-bushel, with Two-Horse Evener, 4-inch front tire, 4-inch rear tire...	115.00
70-bushel, with Combined Two and Three-Horse Evener, 4-inch front tire, 4-inch rear tire.....	125.00

All Boxes 4 feet 6 inches Wide on Inside.

### EXTRAS.

Five-inch Tire on rear wheels; Drill Attachment for spreading in rows, \$8.00; Brake for hilly country, \$5.00; Three-Horse Evener for 40 or 50 bushels, \$4.00; Traction Band for frost or ice; Hood for spreading lime, \$5.00.

## The Baltimore Lime and Ash Spreader.



evenly and regularly. The lime falls but a few inches, thus avoiding dust to either driver or horses. If the wind is very strong an apron can be tacked, if desired, in front of the hopper. Ordinary lumps going through the attachment sleeve will not interfere with the sowing. We also furnish an extra cap and large wheel, whereby fertilizers of every description and plaster can be sown in quantities as low as 300 pounds per acre, and, if coarse, 250 pounds per acre. Hopper holds 18 bushels slaked lime. Price.....\$75.00

Special Price for Cash.

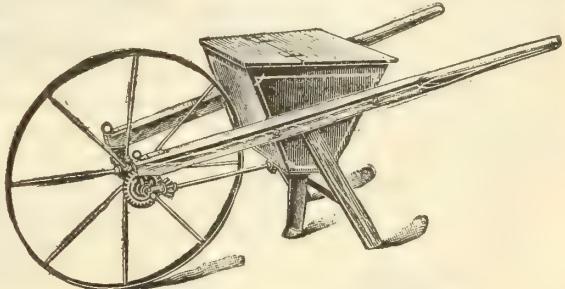
## Single Row Fertilizer Distributer.

### FURNISHED WITH SCORING SHOVEL.

To open the row, and at the same time distribute the fertilizer evenly; also a rear shovel to mix the fertilizer with the soil, which is very important. Price complete.....\$14.00



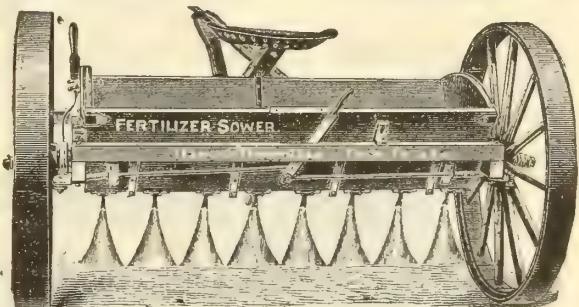
## Baltimore Pea and Fertilizer Drill.



The agitator is new, being of steel in the form of two knife-shaped arms sweeping around under the mass of the fertilizer and throwing it upon the revolving disc below. A shut-off has lately been added, whereby the waste of fertilizer is stopped when turning at ends of rows. As shown in cut, loops are bolted to frame for the purpose of attaching a horse. Excellent for sowing fodder corn or ensilage.

Price.....\$6.00

## Fertilizer, Lime and Ash Distributer.



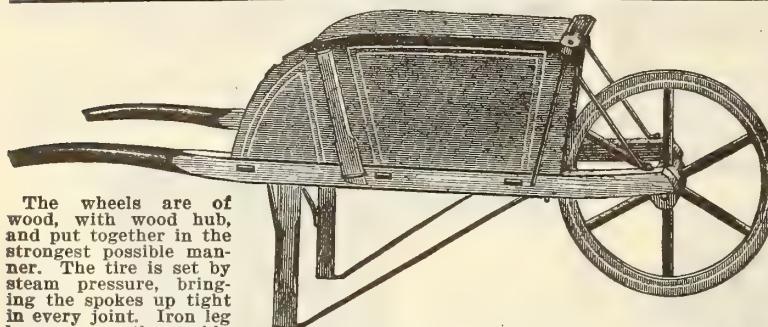
This Fertilizer Distributer will sow evenly fertilizer, Paris Green, etc. The machine is easily operated. The lever on the rear throws the machine in and out of gear. The lever on the left side changes the feed to a small quantity for sowing, even Paris Green, and will sow as much as 8000 pounds of fertilizer per acre.

No. 1—Distributer, 3 feet 6 inches.....	\$30.00
No. 2—Distributer, 4 feet 8 inches.....	36.00
No. 3—Distributer, 5 feet 10 inches.....	42.00
No. 4—Distributer, 8 feet 2 inches.....	48.00

Those persons who use unsifted lime can order extra screen, which is a little larger than the box.

Price.....\$4.00

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



The wheels are of wood, with wood hub, and put together in the strongest possible manner. The tire is set by steam pressure, bringing the spokes up tight in every joint. Iron leg braces are thoroughly bolted, not held by screws. The wheels have iron bands shrunk on end of hub. The spokes, maple or beech, shaped, not turned.

**No. 1.**—This Wheelbarrow is built of the best seasoned material. Frame built of hard wood. It is strong and roomy, and is adapted for the use of farmers. Painted red; size of bin, 30 inches long, 24 inches wide in front, 25 inches in back. Side boards 12 inches high, 30 inches long. Handles 5½ feet long, 2¾x1¼ inches. Wheel 21 inches diameter, 6 spokes; hub 3 inches diameter in center, 2 inches diameter at ends.

No. 1 Barrow, with 1½-inch tread. Weight, 60 pounds. Six crated in one package, 56½ cubic feet.

### Special Home Made Pattern Garden Barrow

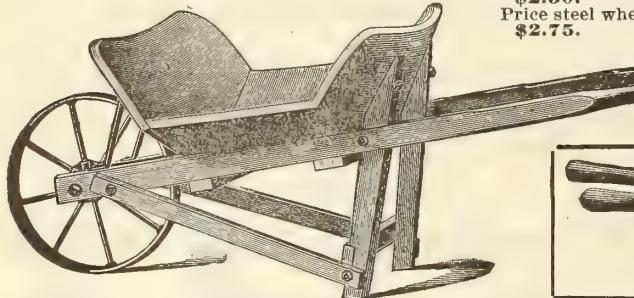
Prices with wood wheel, \$4.50

" " steel " 5.00

### The Baltimore Canal Barrows

Full-sized tray, edges sharped, bolted to legs, and well bolted and braced in front. Handles and legs of selected hardwood; wheels painted. Furnished in both wood and steel wheel. Price wood wheel, \$2.50.

Price steel wheel, \$2.75.



### THE PLAIN BOLTED CANAL BARROWS.

Ordinary size: belt tray; legs bolted to handles and well braced. Furnished with wood or steel wheel. Price, wood wheel..... \$2.00 Price, steel wheel..... 2.25

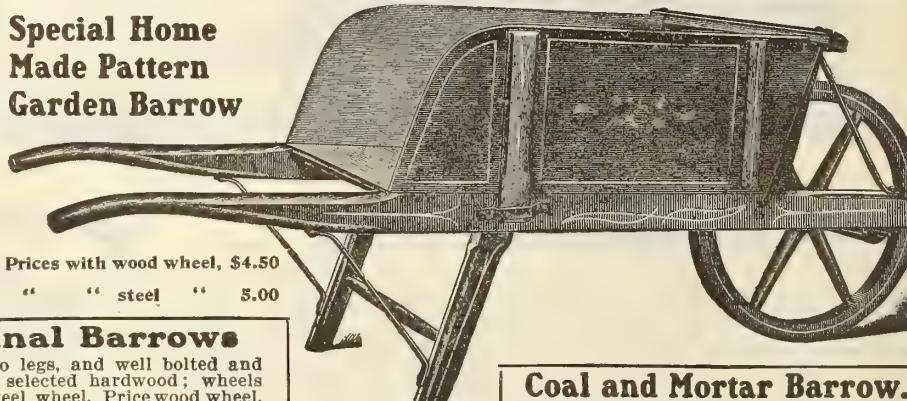
## BALTIMORE GARDEN BARROW

### No. 4, MEDIUM SIZE or MAN'S BARROW.

Inside measurement of box 26½ inches long, 18½ inches at wheel end, 23 inches wide at handle end, 12 inches deep. Has 20-inch wheel, 6 or 8 spokes, 1½-inch tread, ½-inch gudgeon. Painted green or blue. Bottoms matched and glued. Nicely painted and striped. Packed for export, one dozen measure 48 cubic feet. Price \$3.50.

### No. 5, LARGE SIZE or MAN'S BARROW.

Inside measurement of box 28 inches long, 20 inches wide at wheel end, 24 inches wide at handle end, 12 inches deep. Has 22-inch wheel, 6 or 8 spokes, 1½-inch tread, ½-inch gudgeon. Finished as above. Packed, measure 50 cubic feet. Price \$4.00.

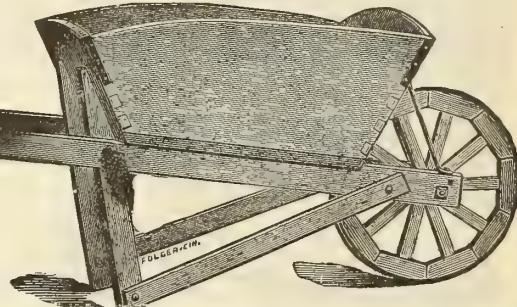


### Coal and Mortar Barrow.

Top is iron banded, strongly braced and bolted; has large capacity.

Price, wood wheel..... \$3.50

Price, steel wheel..... 3.75



### Wood Frame Solid Pressed Steel Tray Barrow STYLE D.

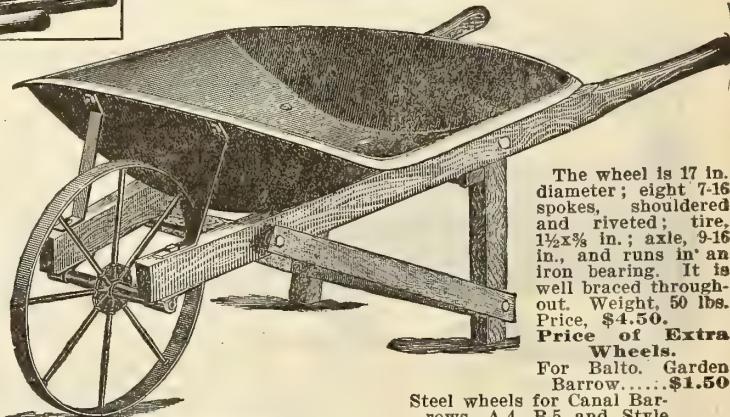


Recommended when a very cheap and light Barrow is wanted.

Price \$3.25

### Southern Steel Tray Barrow.

### Tubular Frame Solid Pressed Steel Tray Barrow.



The wheel is 17 in. diameter; eight 7-16 spokes, shouldered and riveted; tire, 1½x3/8 in.; axle, 9-16 in., and runs in an iron bearing. It is well braced throughout. Weight, 50 lbs. Price, \$4.50.

Price of Extra Wheels.

For Balto. Garden Barrow..... \$1.50

Steel wheels for Canal Barrows, A-4, B-5 and Style D, each..... 1.25

Steel wheels for No. 10..... 1.50

For Canal Barrow, wood..... 1.00

For Canal Barrow, steel... 1.25

Prices of Extra Trays.

For Style D..... \$2.50

For A 4..... 2.50

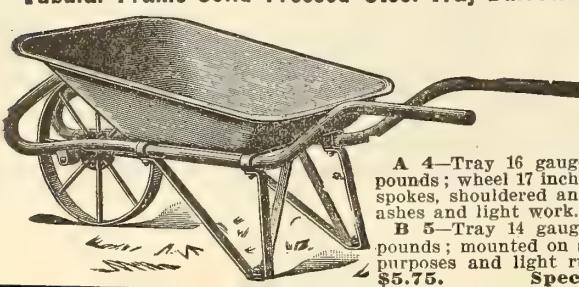
For B 5..... 3.00

For No. 10 Coal and Coke... 5.00

**A 4**—Tray 16 gauge, steel; capacity 3 cubic feet; weight 58 pounds; wheel 17 inches diameter; tire, 1½x3/8 inches, eight 7-16 inch spokes, shouldered and riveted; axle 9-16 inch. For moving earth, ashes and light work. Price, \$5.00.

**B 5**—Tray 14 gauge, steel; capacity 5 cubic feet; weight 75 pounds; mounted on same frame and wheel as A 4. For general purposes and light running. It will stand hard usage. Price, \$5.75.

**SPECIAL DISCOUNT FOR CASH.**



**BALTIMORE STORE TRUCK.**

List Price.....	\$4.00
Retail Price.....	2.00

**NEW YORK PATTERN.**

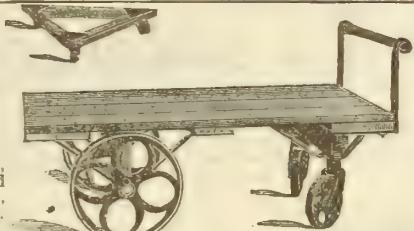
HALF STRAPPED.		FULL STRAPPED.	
List price.	Retail price.	List price.	Retail price.
No. 0... \$4.40	\$2.65	No. 0... \$5.15	\$3.10
No. 1... 4.60	2.75	No. 1... 5.35	3.25
No. 2... 6.10	3.70	No. 2... 7.10	4.25
No. 3... 8.00	4.80	No. 3... 9.00	5.40
No. 4... 10.00	6.00	No. 4... 11.00	6.60
No. 5... 11.50	6.90	No. 5... 13.50	8.10

**NEW YORK PATTERN.—SIZES.**

Length Handles.	Width Nose.	Width Upper bar.	Diameter Wheels.	Weight.
No. 1 4' 0"	12½"	18"	8"	42 lbs.
No. 2 4' 5"	14"	19½"	9½"	44 lbs.
No. 3 4' 8"	15"	21"	9½"	72 lbs.
No. 4 5' 0"	16"	22½"	11"	85 lbs.
No. 5 5' 3"	17"	24"	11"	90 lbs.
No. 6 5' 9"	20"	23½"	12"	125 lbs.

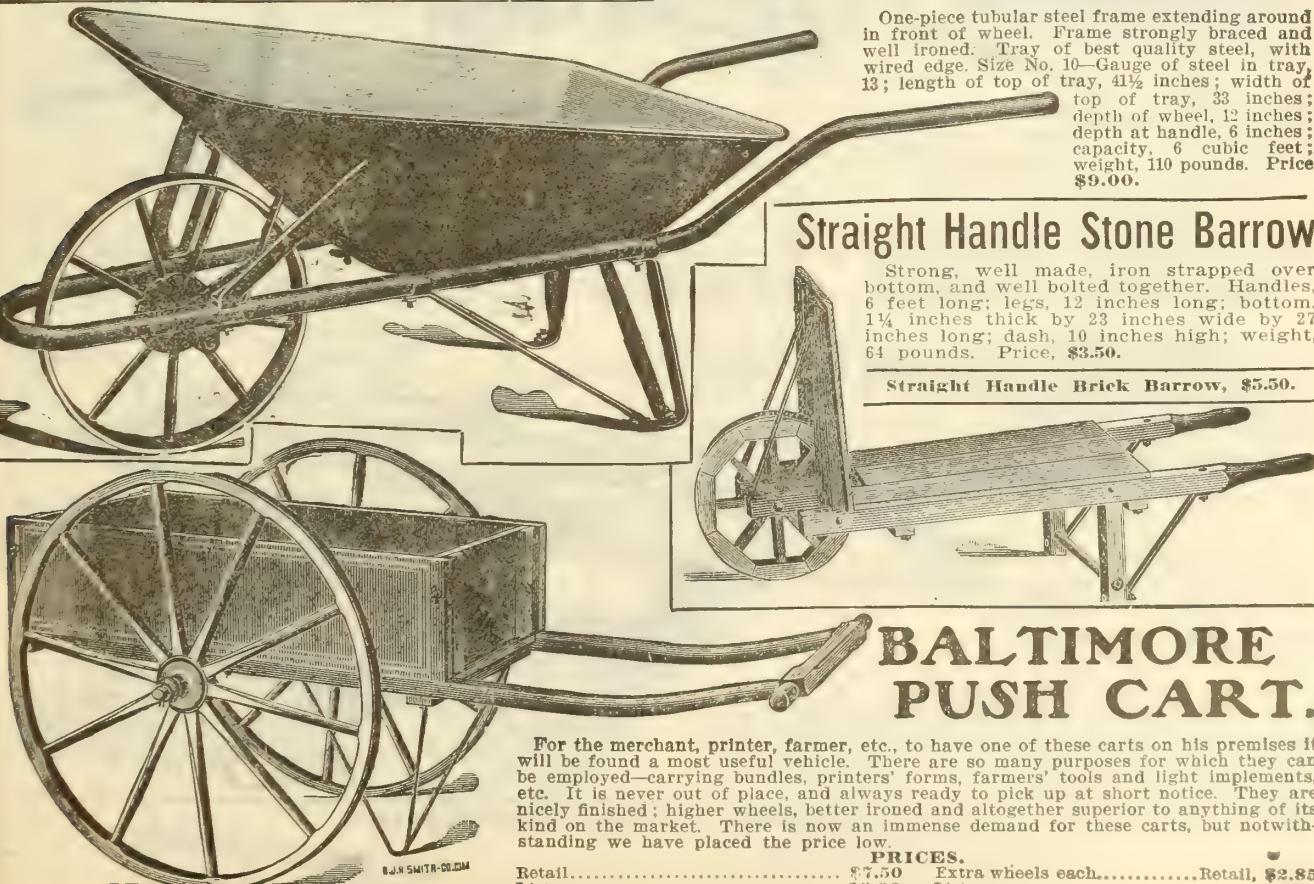
BALTIMORE STORE TRUCK.

Dimensions and Prices		Cast-Iron Truck Wheels.				
Lbs., Height, Face,	Hub, Bore,	Hub,	Bore,	Retail price.	Each.	
Weight. In. In. In. In. List. Each.						
No. 0..... 4½ 6½ 1½ 2¼ \$ .54 \$ .30						
Nos. 1 and 2... 7½ 8 2 2¾ \$.87 \$.55						
No. 3..... 12¾ 9½ 2½ 3¼ 1.52 .90						
Nos. 4 and 5... 17½ 11 3 3¾ 2.10 1.23						
Heavy ..... 25 12 3 3¾ 3.00 1.75						

**Improved Four-Wheel Platform Truck.**


For Canning House, Railroad Stations and Warehouse. Cheap, strong and well made.

Size	Diam.	Diam.	Platform.	Wheels.	Caster.	Weight.	List.	Retail.
No. 1.....	2x4 ft.	12 in.	6 in.	120 lbs.	120 lbs.	\$25.00	\$15.00	
No. 21.....	3x5 ft.	18 in.	9 in.	200 lbs.	200 lbs.	35.25	21.15	


**COTTON TRUCKS.**

	List.	Retail.
No. 3.....	\$9.00	\$5.40
No. 4.....	11.00	6.60
No. 5.....	13.50	8.10

Length Handles. Width Nose. Width at Upper bar. Diameter Wheels. Weight.

No. 3	4' 10"	15½"	21"	9½"	74 lbs.
No. 4	5' 0"	16"	23"	11½"	104 lbs.
No. 5	5' 3"	18"	22"	10"	95 lbs.
No. 6	5' 9"	20"	23½"	12"	125 lbs.

**NEW YORK BARREL TRUCKS.**

List.	Retail.	List.	Retail.
No. 1... \$7.00	\$4.25	No. 4... \$12.50	\$7.50
No. 2... 9.00	5.40	No. 5... 15.00	9.00
No. 3... 10.50	6.30		

Length Handles. Width Nose. Width at Upper bar. Diameter Wheels. Weight.

No. 1	4' 0"	12"	17½"	7"	42 lbs.
No. 2	4' 6"	14"	18½"	8"	53 lbs.
No. 3	4' 7"	15"	20½"	9"	76 lbs.
No. 4	5' 0"	16"	21"	9½"	95 lbs.
No. 5	5' 3"	18"	22"	10"	125 lbs.

**PLAIN PLATFORM TRUCK.**

We are prepared to quote special prices on Trucks of every description. If you want anything special write us for prices.

Size of Platform. Weight. Diam. Wheels. List. Retail.

No. 82... 2 ft. 4 in. by 3 ft. 4 in.	100 lbs.	7½ in.	\$14.00	\$8.40
No. 83... 2 ft. 6 in. by 3 ft. 6 in.	115 lbs.	7½ in.	15.00	9.00
No. 84... 3 ft. by 4 ft.	125 lbs.	8½ in.	17.00	10.25

Can furnish Special Trucks at lowest prices; also Truck Wheels. Write for prices.

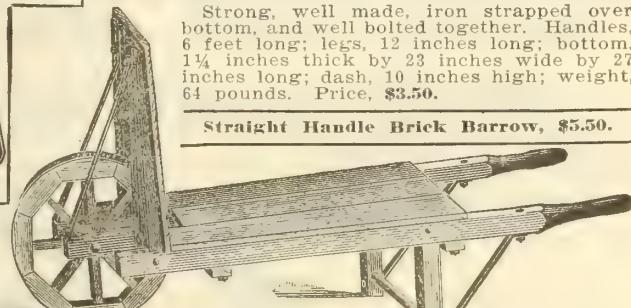
**Solid Pressed Steel Tray Coal and Coke Barrow No. 10.**

One-piece tubular steel frame extending around in front of wheel. Frame strongly braced and well ironed. Tray of best quality steel, with wired edge. Size No. 10—Gauge of steel in tray, 13; length of top of tray, 41½ inches; width of tray, 33 inches; top of tray, 33 inches; depth of wheel, 12 inches; depth of handle, 6 inches; capacity, 6 cubic feet; weight, 110 pounds. Price \$9.00.

**Straight Handle Stone Barrow**

Strong, well made, iron strapped over bottom, and well bolted together. Handles, 6 feet long; legs, 12 inches long; bottom, 13½ inches thick by 23 inches wide by 27 inches long; dash, 10 inches high; weight, 64 pounds. Price, \$3.50.

**Straight Handle Brick Barrow, \$5.50.**


**BALTIMORE PUSH CART.**

For the merchant, printer, farmer, etc., to have one of these carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and always ready to pick up at short notice. They are nicely finished; higher wheels, better ironed and altogether superior to anything of its kind on the market. There is now an immense demand for these carts, but notwithstanding we have placed the price low.

Prices.	\$7.50	Extra wheels each.....	Retail, \$2.85
List.....	13.00	List.....	4.60

# HENCH & DROMGOLD'S

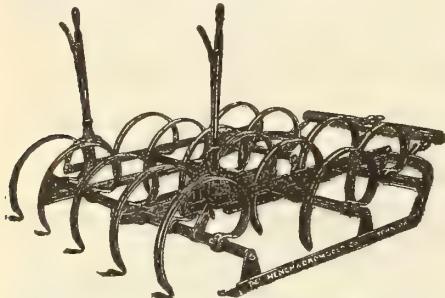
The original standard lever wheel harrow of the world. Depth easily and quickly regulated by the levers; wheels prevent teeth from gouging. By use of ratchets and levers 15 inches can be worn off teeth before renewing. It is pivoted in the center, and can be uncoupled in a moment without the use of bolts or split keys, and can then be used as a one-horse harrow, which makes it quite convenient, either half being adjusted with perfect ease.

## SPRING HARROW TEETH.

For All Leading Harrows.  
Price... 40c. each.  
When taken in full sets a special price.

## SLED RUNNER SPRING TOOTH LEVER HARROW.

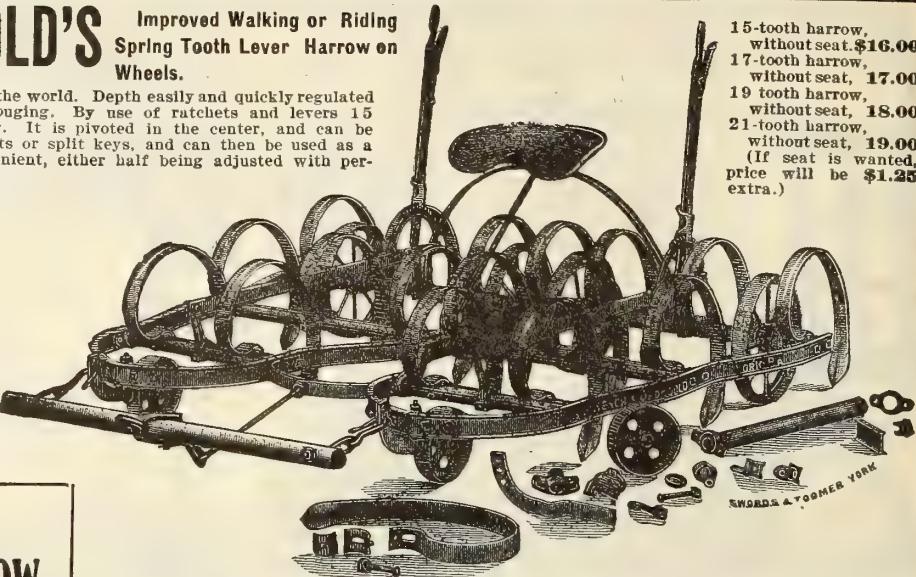
The runner form of frame allows the Harrow to run steadily and smoothly, and permits the teeth always to work at a uniform depth.



15-tooth, complete, 2 sections price, ..... \$15.00  
17-tooth, complete, 2 sections price, ..... 16.00  
23-tooth, complete, 3 sections price, ..... 22.50  
25-tooth, complete, 3 sections price, ..... 24.00

**SPECIAL POINTS FOR HARROW TEETH.**  
Write for Prices.

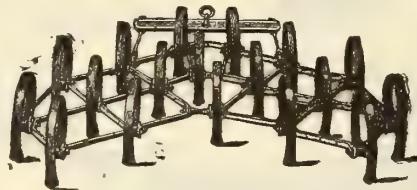
## Improved Walking or Riding Spring Tooth Lever Harrow on Wheels.



15-tooth harrow, without seat. \$16.00  
17-tooth harrow, without seat, 17.00  
19-tooth harrow, without seat, 18.00  
21-tooth harrow, without seat, 19.00  
(If seat is wanted, price will be \$1.25 extra.)

## HENCH & DROMGOLD'S ALL STEEL FRAME, SPRING TOOTH HARROW.

In the Ratchet Tool Holder, as shown in the cut, the tooth is securely clamped between two malleable ratchet clips, which engage with the ratchet frame clip, and is held firmly and securely by one bolt to each tooth, on which it rotates as on a pivot. By this arrangement, if the teeth are worn off or cut off as much as 15 inches, they can be set to run as deep as when new. It is so hinged that either side can be raised straight up or at right angles, for passing stumps or trees.



### Special Discount for Cash.

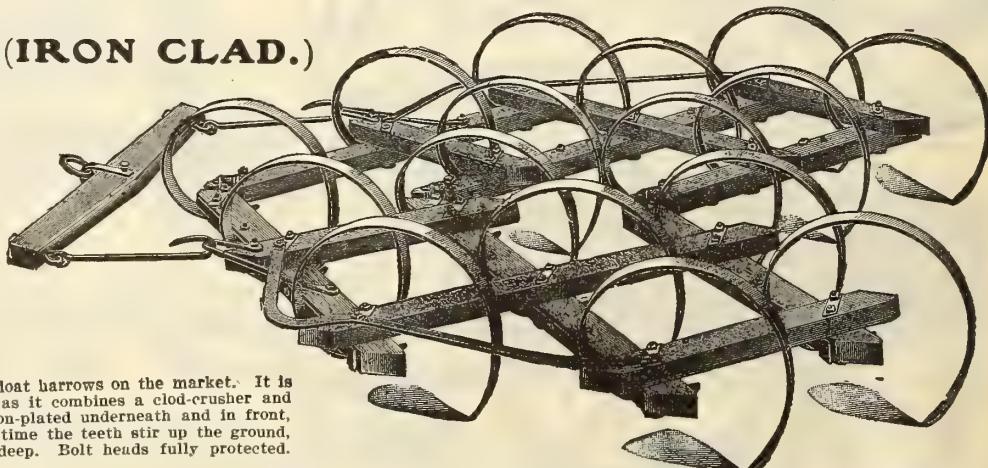
14-tooth Harrow.....	\$10.50
16-tooth Harrow.....	11.00
18-tooth Harrow.....	12.00
20-tooth Harrow.....	13.25
22-tooth Harrow.....	14.00

## WOOD FRAME, SPRING TOOTH HARROW.

16-tooth Harrows..... \$8.50  
18-tooth Harrows..... 9.25  
20-tooth Harrows..... \$10.25  
22-tooth Harrows..... 11.00

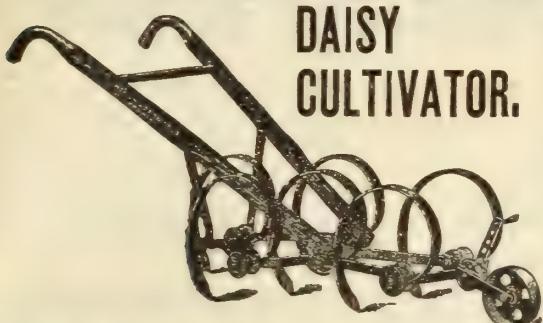
Special Discount for Cash.

### (IRON CLAD.)



This is without doubt one of the best float harrows on the market. It is particularly desirable in cloudy ground, as it combines a clod-crusher and spring-tooth Harrow, the frame being iron-plated underneath and in front, so that it crushes the clods at the same time the teeth stir up the ground, and the frame prevents it sinking too deep. Bolt heads fully protected. Teeth cannot get loose.

## DAISY CULTIVATOR.



**T**HE cut represents the DAISY CULTIVATOR, with handles for use similar to the DAISY ON WHEELS. This Cultivator has the same ratchet holder as will be found on all of this make of Harrows. It is built with 6 or 8 teeth, but can be used with 5, 6, 7 or 8 teeth, as desired. By simply unbolting the two outside teeth of the 6-tooth Cultivator it can be used with 4 teeth, and by taking out the middle tooth on the right-hand side and setting the rear tooth in the center it makes a 5-tooth Cultivator.

### RETAIL PRICE.

Price of 6-Tooth Cultivator, with wheel.....	\$5.50
Price of 8-Tooth Cultivator, with wheel.....	6.50
Price of 10-Tooth Cultivator, with wheel.....	7.50
Price of 12-Tooth Cultivator, with wheel.....	10.50

Per pound.....



## SPIKE HARROW TEETH

## Daisy Cultivator on Wheels.



**T**HIS style of Cultivator is precisely the same as either half of the regular Spring Tooth Wheel Harrow, with the addition of handles. It is an admirable implement for use with one horse in working crops in rows. We can furnish anyone having the regular Harrow a set of handles and braces, and they can be attached to either half. The front wheel is pivoted, and will draw with ease after the horse, causing it to draw straight. The wheels guide it and cause it to run steady, and each tooth will cut its own way. For turning at the ends the teeth can be raised by the use of the lever, and is very easy to operate. The frame is made of "I" Beam steel ; the rollers or bars are also of steel, the castings being malleable, and the best steel used in our teeth make it one of the most durable and complete Cultivators or small Harrows ever offered to the public. We solicit your patronage.

### RETAIL PRICE.

7-Tooth.....	\$9.50	10-Tooth.....	\$11.00
8-Tooth.....	10.00	11-Tooth.....	11.50
9-Tooth.....	10.50		

### Special Discount for Cash.

## ADJUSTABLE TOOTH LEVER HARROW

50-tooth, 2 sections, \$11.50. 60-tooth, 2 sections, \$12.75. 75-tooth, 3 sections, \$17.25. 90-tooth, 3 sections, \$19.00.

### Special Discount for Cash.

This Harrow has a frame of I beam steel, bars of "U"-shaped steel, well braced and securely fastened at each end to the frame. This gives the Harrow a double advantage, strength and rigidity, and as a guard against catching into trees and stumps. The teeth are of diamond-shape steel. The runners are formed by the curved tooth extension, which are placed so that the Harrow will free itself from trash better and will carry the Harrow more even distance from the ground than any other Harrow on the market. The teeth are held firmly by a welded eye steel bolt through the clip malleable to roller bar, also the end teeth on the roller bars, which locks and holds the frame firmly together. Each tooth cuts its own course, and can be raised or lowered as desired, and with the lever the teeth can be set to any pitch or cut desired.

## STEEL "U" BAR LEVER HARROW.

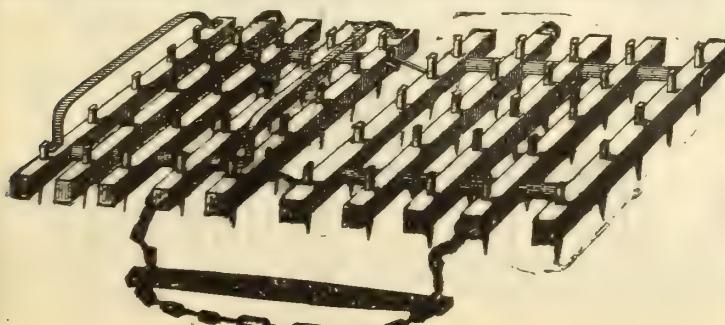
### SO ARRANGED THAT THE TEETH CANNOT TRACK.

This is a "U" Bar Steel Harrow, with five "U" bars to each section. The teeth are so fastened by a malleable tooth-holder secured by a bolt that may be easily removed for sharpening, or so they may be adjusted to make them cut deep or shallow, as desired. The levers permit the teeth to be lowered for smoothing or set forward at an angle to make them do more work and run more steadily, and also allow the operator to unload trash without stopping his team. It is strong and durable ; made of high-carbon steel. It is finished nicely, painted and varnished. The heads of the teeth are swedged to prevent losing them, which makes a much more economical and satisfactory Harrow for the farmer to own and the dealer to sell.

	Price with ½-inch Teeth.....	Price with ¾-inch Teeth.....
2-Section, 50-Tooth.....	\$10.00	\$16.75
2-Section, 60-Tooth.....	11.25	12.00
2-Section, 75-Tooth.....	15.00	16.00
3-Section, 90-Tooth.....	17.00	18.00

### Special Discount for Cash.

## BALTIMORE DOUBLE HINGE HARROW.



This is a two-section, wood frame, spiked-tooth Harrow. The runners, as seen in the cut, are intended to be used in carrying the Harrow from one field to another.

### PRICE.

40-Tooth.....	\$8.50
48-Tooth.....	10.00

### Special Discount for Cash.

### GARDENER'S HARROW.

This Harrow is similar to the Baltimore Double Hinge Harrow, only it is made in one section instead of two. It is designed to be used by one horse. We furnish this Harrow with 30 teeth, which cuts 4 feet 6 inches wide, and with 24 teeth, cutting 3 feet 8 inches wide.

### PRICE.

With 25 teeth.....	\$5.00	With 30 teeth.....	\$5.50
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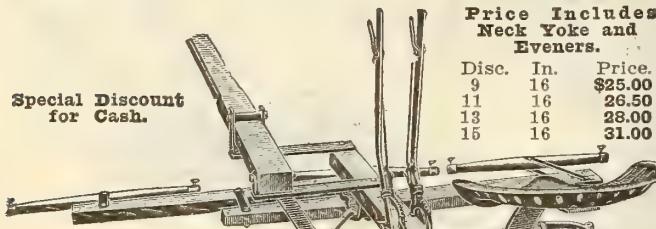
Also furnish the old-style A and Double A Harrows at the following prices :

Single "A," with 20 ½-inch teeth.....	\$7.00
Double "A," with 26 ¼-inch teeth.....	12.50
Double "A," with 30 ¾-inch teeth.....	13.50

### Special Discount for Cash.

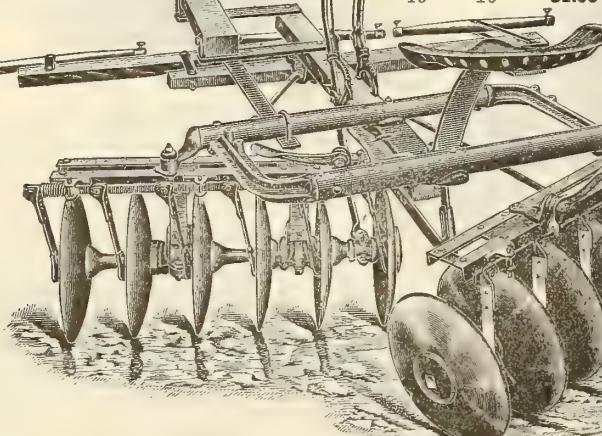
## BELL'S CENTER-CUT OVERLAPPING DISC HARROW.

Special Discount for Cash.



Price Includes  
Neck Yoke and  
Eveners.

Disc.	In.	Price.
9	16	\$25.00
11	16	26.50
13	16	28.00
15	16	31.00



Most of the Disc Harrows on the market are so constructed as to leave an uncut ridge in the center. This is not the case with the **BELL'S CENTER-CUT** (see engraving). This Harrow cultivates the ridge and pulverizes the ground from outside to outside, leaving a smooth surface behind it. There will be no hard ridge. There will be no row of weeds between the grain. This Harrow is made of steel angles and platform and high-test steel discs. Harrows will always be furnished with Round Discs, unless especially ordered otherwise. Polygon or cut discs furnished at small extra cost when specially ordered.

## Janesville Disc Harrow. No. B.

An angle steel bar runs the full length of the gang and is fastened to the top of the standards. This takes the place of weight boxes.

The cleaner bar and cleaners are attached to this bar. The standards are steel.

The inner and outer draft boxes are oiled from the top of the standards, the center box from the bottom. The oil boxes are fitted with spring covers.

The Janesville Disc Harrows carried in stock in the following sizes, four, five and six feet wide.

## PRICES.

Disc.	In.	Price.
8	16	\$20.00
10	16	21.00
12	16	24.00

Special Discount for Cash.

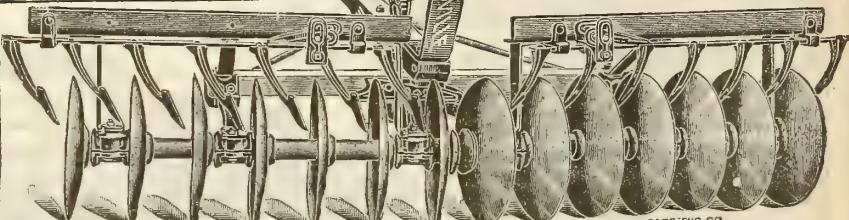
## Oriole Disc Harrow.

Will throw the dirt either to or from the center. This we carry in the 10-disc size only, and is similar in appearance to the JANEVILLE.

## PRICE.

10 16-inch Discs.....\$25.00

Special Discount for Cash.



These Harrows possess the advantage of a flexible up-and-down movement at the inner end of the disc gangs while retaining an equal pressure on all the discs. This feature is under complete control of the driver.

Prices, 8 Discs, 16 inches, \$21.00; 10 Discs, 16 Inches, \$22.00; 12 Discs, 16 Inches,

(Formerly BUFFALO PITTS.)

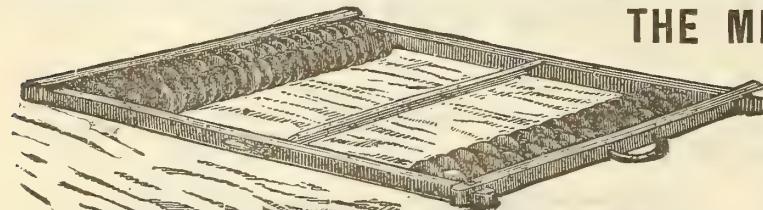
Special Discount for Cash. \$24.00; 14 Discs, 16 Inches, \$27.00.

## WALTER A. WOOD DISC HARROW.

(Formerly BUFFALO PITTS.)

Special Discount for Cash. \$24.00; 14 Discs, 16 Inches, \$27.00.

## THE MEEKER SMOOTHING HARROW.



STEEL DISC.  
A PERFECT HARROW AND A PERFECT LAND ROLLER COMBINED.

The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 58 discs, 8 inches diameter on them. The discs grind all the lumps so fine that the seed must come up, leveling and leaving the land fine and smooth and doing its work far better than the rake. Price.....\$20.00

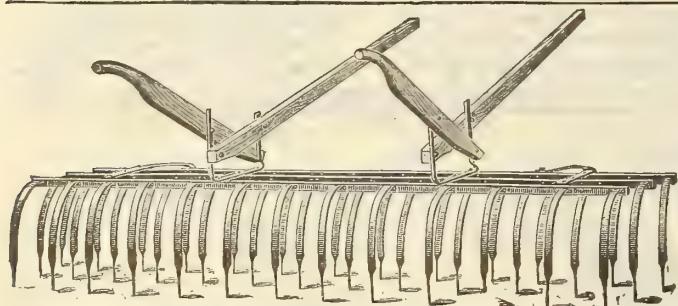
Special Discount for Cash.

## Hallock Weeder and Cultivator.

The frame is of angle iron. Each tooth is bolted on separately. The handles and shafts are adjustable. The teeth are six inches apart on each frame and so arranged that a 6-inch space shows diagonally across. This allows butts of corn-stalks and trash to pass through.

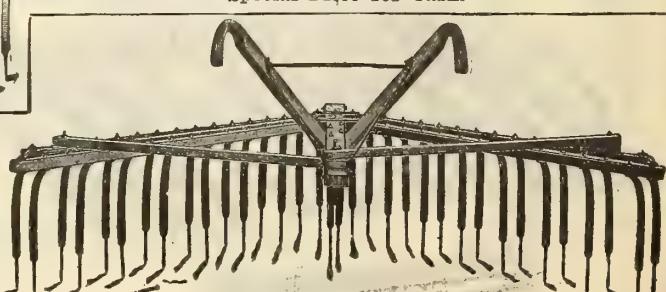
Removing one tooth a 4-inch space is given over the row. Removal of two teeth will give a 6-inch space. It works also four, six and eight rows. Price.....\$12.00

Special Price for Cash.

KEYSTONE  
ADJUSTABLE WEEDER.

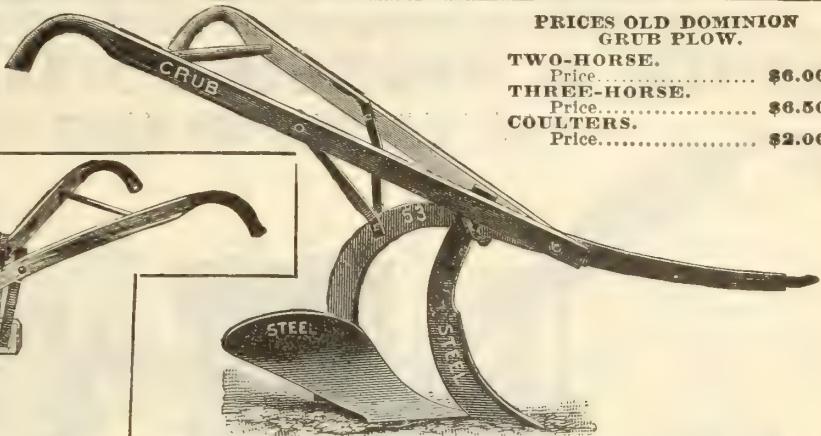
Can be adjusted from 7 1/2 feet, as per cut, down to 30 inches, for the purpose of cultivating between rows. Flat teeth, with diamond points. Furnished with caster wheel in front, not shown in cut. Price.....\$12.50

Special Price for Cash.



## Old Dominion Grub Plow.

It is peculiarly adapted to newly cleared ground that is encumbered with growth of hazel or other bushes. All wearing parts are of best steel, and it is so strongly built that it will withstand the hardest usage. It is the favorite plow of its class. It is built in right hand only, and cuts about 7 inches. If you ever have a demand for a new ground plow, you should try this one.



### PRICES OLD DOMINION GRUB PLOW.

TWO-HORSE.	Price.....	\$6.00
THREE-HORSE.	Price.....	\$6.50
COULTERS.	Price.....	\$2.00

## Gold Medal Sub-Soil Plow.



The plow will reach a depth of 20 inches.

PRICES.	
1 horse, with cast point, plain	\$5.00
1 horse, with cast point, with wheel.....	\$6.00
1 horse cast share.....	50c.
2 horse, with cast point, plain	\$7.50
2 horse, with wheel.....	\$8.50
2 horse cast share.....	90c.

## COMBINATION POTATO DIGGER,

SUB-SOIL PLOW AND DOUBLE MOULDBOARD PLOW.

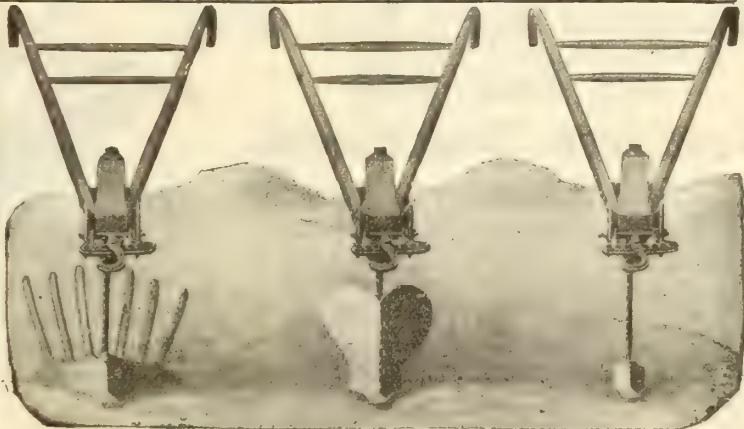
FOR TWO OR THREE HORSES.

Each plow is in itself a perfect tool. The change from one plow to another can be made in a few minutes. The subsoil plow should always be used with a wheel.

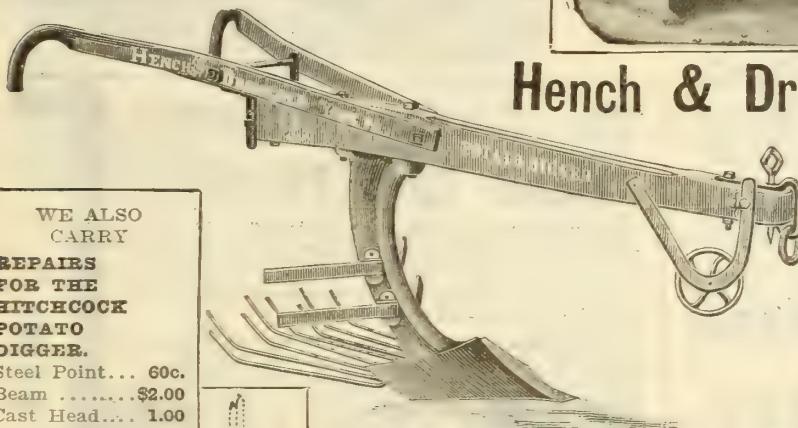
The standard is made of malleable iron, 6½ inches wide at the narrowest point and firmly bolted to the beam. The double mould and points and digger mould are made of chilled cast iron, polished, and digger fingers of wrought iron. Altogether a very strong and serviceable implement.

### OUR SPECIAL PRICES.

Subsoil Plow, plain.....	\$5.00
Subsoil Plow, with wheel.....	6.00
Double Mould for same, 12 inch.....	1.00
Potato-Digging Attachment for same.....	2.00



## Hench & Dromgold Potato Digger.



The standards are made of cast iron, having on a highly-polished steel share. The side or wing pieces to the standard are bolted with a ratchet, by which they can be adjusted to stand up or down as desired. The fingers extending back from the standard are made in a zig-zag form, instead of straight, as shown in cut, on account of which they separate the potatoes from the ground better than straight ones. They are made of spring steel, and are very elastic and durable.

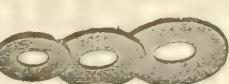
Price..... \$7.00      Steel Share..... \$1.00



### IMPROVED PATENT FURROWER and MARKER.

Strong, light and durable. A half-dozen tools in one. Runs steadily and cannot be choked. Adjustable throughout. Broad runners of wrought T angle iron with rib to prevent sliding on side hill. Revolving discs or furrowers 15 inches in diameter, with chilled hub and steel axle. Shipping weight 140 pounds.

Price ..... \$20.00



BOLTS FOR CAST PLOWS, such as Minor & Horton, Farmers' Friend, Boy Dixie, Girl Champion.

CHILLED PLOWS.—South Bend, Wiard, Syracuse, Roland.

BASE BOLTS..... Price, 2c. to 3c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

GRIFFITH & TURNER CO.

# HENCH & DROMGOLD'S CORN PLANTERS.

## STEEL FRAME SINGLE ROW PLANter WITH FERTILIZER ATTACHMENT.



### PRICES.

Plain Planter	\$12.00
Planter, with Fertilizer Attachment	14.00
Extra Dropping Dies, each	.50
Special Price for Cash.	

Fig. 28 B.

### Showing Corn-Box in the Rear with Fertilizer Attachment.

The cut represents our Single Row Corn Planter with corn-box in rear, and is sold largely in some sections.

It has the same dropping device and fertilizer feed as our other Planter. We furnish them with double or concave wheel. In some sections the concave wheel is preferable for rolling or pressing the ground down on the corn.

All the Planters we make have the spring trip cut-off in the corn hopper instead of the brush. This is preferable to the brush, as it does not break any corn, and is more durable. We, however, can furnish the brush block with any of the Planters if so ordered.

In all of these Planters the top part of corn-box is made of heavy sheet iron, riveted to a cast ring which is hinged to the bottom, and by loosening one thumb-nut can be turned to the side and the rings changed and the bottom cleaned out nicely.

On all machines where fertilizer attachments are used the fertilizer box sets lower on the frame, has less number of pieces, less complicated and the most positive force feed of any Planter on the market; insures uniform distribution, whether dry or damp. Will sow from 20 pounds to 450 pounds per acre, and if a larger quantity is wanted use the five-point chain wheel, and it will sow 525 pounds per acre.

NOTE.—If the rows are marked out closer than three feet six inches, it will sow more per acre.

### PRICES.

Plain Planter	\$12.00
Planter with fertilizer attachment	14.00
Extra Dropping Dies, each	.50
Special Price for Cash.	

The Corn-Dropping arrangement is very simple and positive in action.

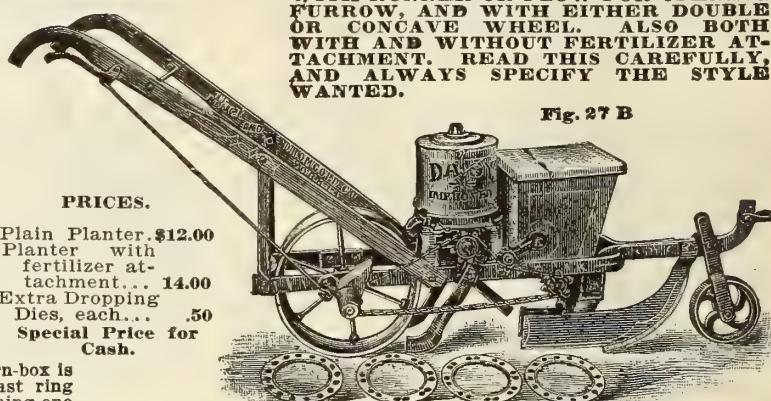
The Fertilizer Sower has an agitator, which prevents the fertilizer from arching in the box, and will sow regularly any quantity from 100 to 400 pounds per acre.

Four Rings or Dropping Dies are furnished with each Planter; two with small and two with large holes, dropping one grain at a place and equal distance apart, and two with large and two with small holes for dropping two grains in a hill.

Three Chain Wheels are furnished with plain Planter and four with fertilizer. The six-point chain wheel drops one grain 13 inches or two grains 26 inches apart. The seven-point drops one grain 15 inches or two grains 30 inches apart. The eight-point wheel drops one grain 17 inches or two grains 34 inches apart. The nine-point wheel drops one grain 19 inches or two grains 38 inches apart. We can also furnish rings for planting Peas, Beans, Ensilage Corn or any kind of seeds, and by using the different chain wheels can plant any desired amount.

THESE PLANTERS (FIGS. 28 B. AND 27 B.) CAN BE FURNISHED EITHER WITH RUNNER OR PLOW FOR OPENING FURROW, AND WITH EITHER DOUBLE OR CONCAVE WHEEL. ALSO BOTH WITH AND WITHOUT FERTILIZER ATTACHMENT. READ THIS CAREFULLY, AND ALWAYS SPECIFY THE STYLE WANTED.

Fig. 27 B



### The Leader Hand Corn Planter.

Will plant seeds ranging in size from Pop Corn to large Kidney Beans, and never skips a hill. Has a large sheet brass seed cut-off. Does not injure the grain. A Planter that is first-class in material, finish and workmanship, and built for wear. Price \$1.25.

### The Gordon Automatic Hand Corn Planter.

ITS ROTARY SLIDE has a motion two ways—back and forth. It prevents skips. No matter how short the stroke, the pocket is pushed into the corn and back into the conveyor tube.

This motion is positive. It breaks up all bridging and fills the pocket uniformly—it counts the kernels for each drop.

THE IRON STRIPPER will not wear out or break. It prevents an overdose of corn, and will not crack a kernel. The entire dropping device is made of iron, held together by three bolts. All parts are easily accessible and readily adjusted.

THE HOPPER IS IN LINE WITH THE CENTER. There is a double-coil spring on each side, and the Planter hangs well in the hand. The material is all the best. The Planter is finished with a selected hardwood frame, finished bright, a brilliantly painted hopper and all parts varnished.

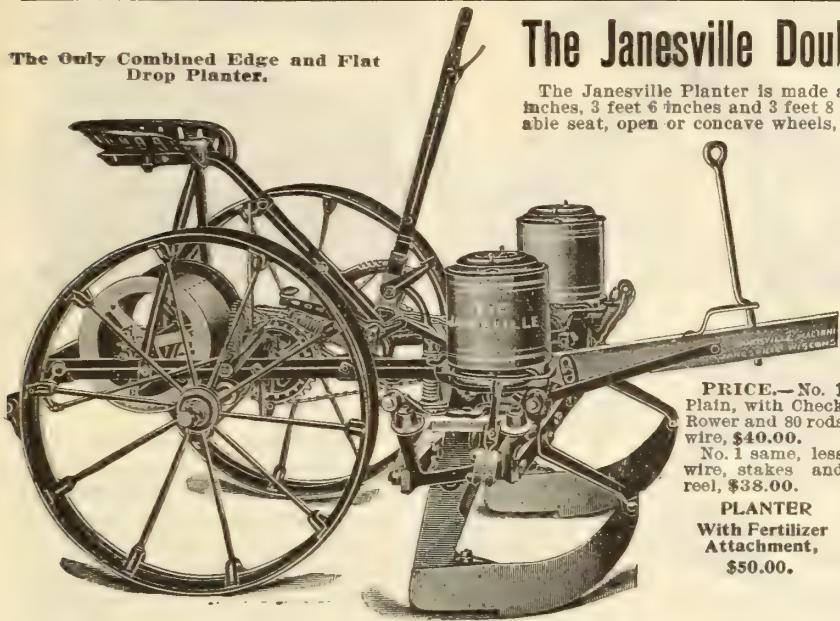
PRICE, \$1.50.

PRICE \$1.50.

### American Hand Corn Planters.

Are fitted with Sheffield's famous patent adjustable seed disc and spring brass cut-off. The disc revolves similar to disc used in horse planters, and is one of the best finished and most accurate dropping discs ever used in corn planters of any description. Price, \$1.75.

The Only Combined Edge and Flat Drop Planter.



## The Janesville Double Row Corn Planter No. 1.

The Janesville Planter is made adjustable in width to the following sizes: 3 feet 4 inches, 3 feet 6 inches and 3 feet 8 inches. It has a strong frame, disc, marker, adjustable seat, open or concave wheels, plain or stub runners.

Seed Boxes are removable, and the plates may be changed without removing the corn. This also enables the operator to refill the seed-can by taking it to the grain sack instead of carrying the heavy sack to the machine, **an exclusive Janesville feature.** The time gear for driving the seed plants, together with the removable boxes, are so constructed that you cannot get the seed boxes on the wrong side, nor can you get the driving gear out of time. With our Convertible Drop (see Cut) we furnish with each planter both kinds of plates, so that by simply changing the seed plates you can have either the Edge Drop or Flat Drop. The Flat Drop gives much the best results with mixed seed, and it is sometimes not convenient to have selected seed corn.

Our Edge Drop is one of the best mechanical devices ever gotten up for the purpose, and operates as follows: The seed plate has cells in the outer edge, each of which is made to receive one kernel of corn edgewise. A revolving disc working on an eccentric over the seed plate insures the filling of these cells.

The cut-off will not crack the corn. The spring knocker drops in each cell and forces out the kernel. The seed plates are chain driven from a sprocket wheel on the main axle to a sprocket on the feed shaft. This obviates the side draft and relieves the wire strain.

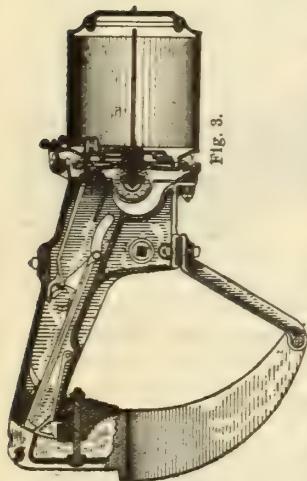
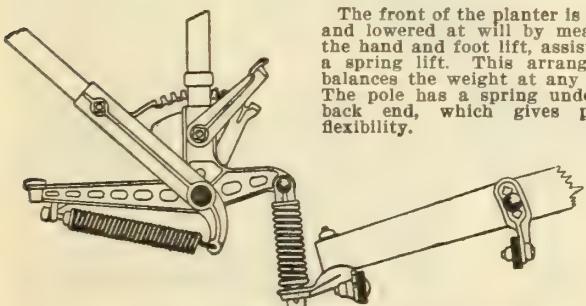


Fig. 3.

The valves of the Janesville Planter are two in number in each shank, an upper and a lower. This makes it impossible to plant two hills at the same time. The lower valve keeps the heel of the runner clear and by its action equalizes the difference between fast and slow driving. The upper valve prevents all possibility of discharging seed between the hills. Being enclosed in the shank, the valve mechanism cannot be affected by trash. The change from hill to drill drop may be made by turning a button on each shank which opens the valves; then release the clutch so as to make a continuous revolution. (See Fig. 3.)

### Valves Adjusted to Hill Drop.

The front of the planter is raised and lowered at will by means of the hand and foot lift, assisted by a spring lift. This arrangement balances the weight at any point. The pole has a spring under the back end, which gives perfect flexibility.



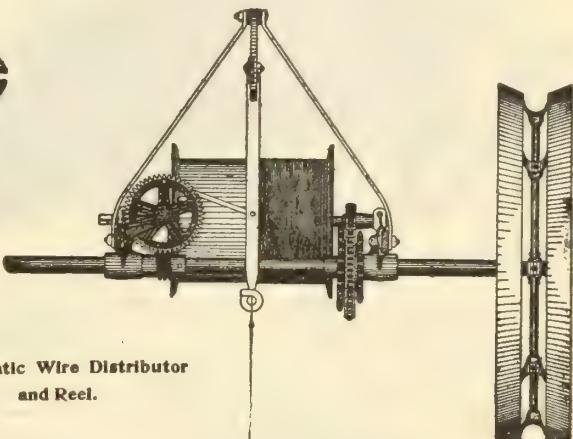
Spring Lift and Connection to Front Frame.

An adjustment on the pole may be raised or lowered to regulate the set of the check rower.

The Check Head Trip is a patented device which operates entirely different from the former manner in which this was accomplished. A trip bar is fastened on the front frame, and when the planter is raised out of the ground it automatically releases the wire from the planter.

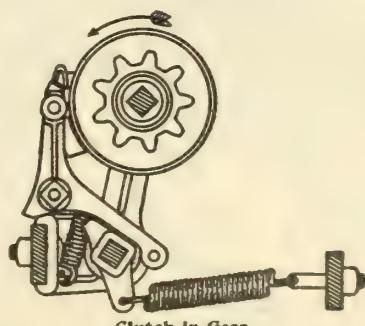


Bottom of Convertible Drop Seed Hopper.



Automatic Wire Distributor and Reel.

The Automatic Wire Distributor and Reel are operated by power from the main axle, so that you simply have to drive the horses and the reel takes care of itself, whether in laying out or taking up the wire. The reel has a friction clamp, which is to be used in letting out the wire, so as to produce the proper tension. The Automatic Distributor in taking up the wire prevents tangling on the reel. This is also an exclusive idea, and found only on the Janesville No. 1 Planter.



Clutch in Gear.

The Automatic Clutch device is an exclusive feature that every user will appreciate. Its action is without jerk or jar when thrown in and out of gear, and it is positive in action. A safety device prevents breakage should a foreign substance get into the hopper. The buttons on the wire trip the clutch, allowing the feed shaft to make one revolution. This accumulates enough corn for one hill. It is then thrown out of gear until the next button operates the check rower and throws the clutch into gear.

## CORN AND COTTON PLANTER

COTTONSEED  
ALWAYS  
IN VIEW.



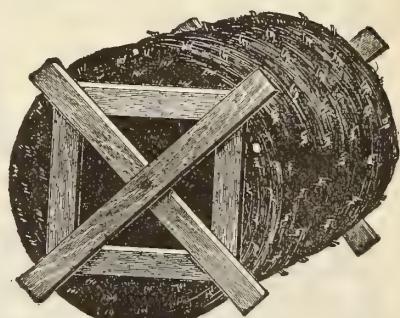
No. 41.

Feed wheel for planting cottonseed is affixed to shaft so that it moves opposite to the cotton disc. This makes the seed flow continuously without bunching, and is regulated by a small gauge slide, so that one peck to 2½ bushels can be planted to the acre. Weight 112 pounds.

Price, plain, \$11.00.

Price with Fertilizer Attachment, \$13.00.

## CHECK-ROWER WIRE.



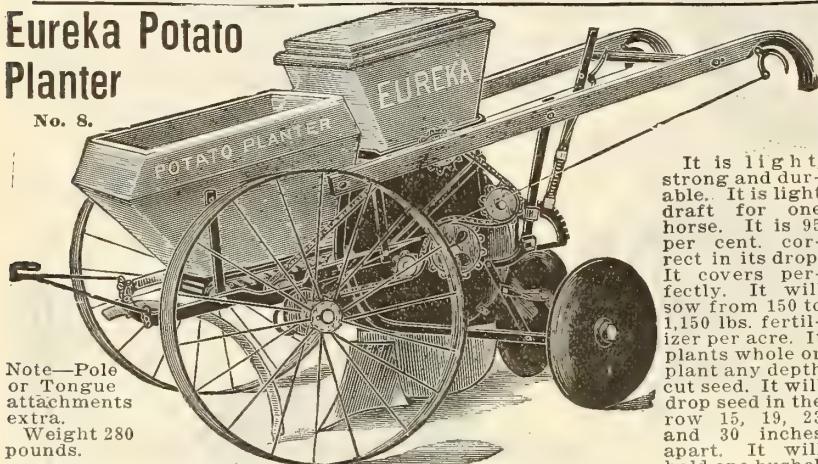
Carry in stock 3 ft. 6 in. and 3 ft. 8 in.

Price per rod, 6c.

**Special Price in Quantity.**

## Eureka Potato Planter

No. 8.



Note—Pole or Tongue attachments extra.

Weight 280 pounds.

and one-quarter of potatoes and 50 pounds of fertilizer. It is made with or without fertilizer attachment. It turns easily at the end of the row. It has marker for marking return row. The furrow is opened by an anti-packing shoe or plow. The potato is dropped equi-distant apart, as regulated. The potato is partially covered by earth; the fertilizer is dropped and does not come in contact with the potato; the discs cover both potato and fertilizer any depth desired. With Fertilizer Attachment, Retail price \$45.00, List price \$70.00.

It is light, strong and durable. It is light draft for one horse. It is 95 per cent. correct in its drop. It covers perfectly. It will sow from 150 to 1,150 lbs. fertilizer per acre. It plants whole or plant any depth cut seed. It will drop seed in the row 15, 19, 23 and 30 inches apart. It will hold one bushel

of seed.

Price, per pair, \$3.00.

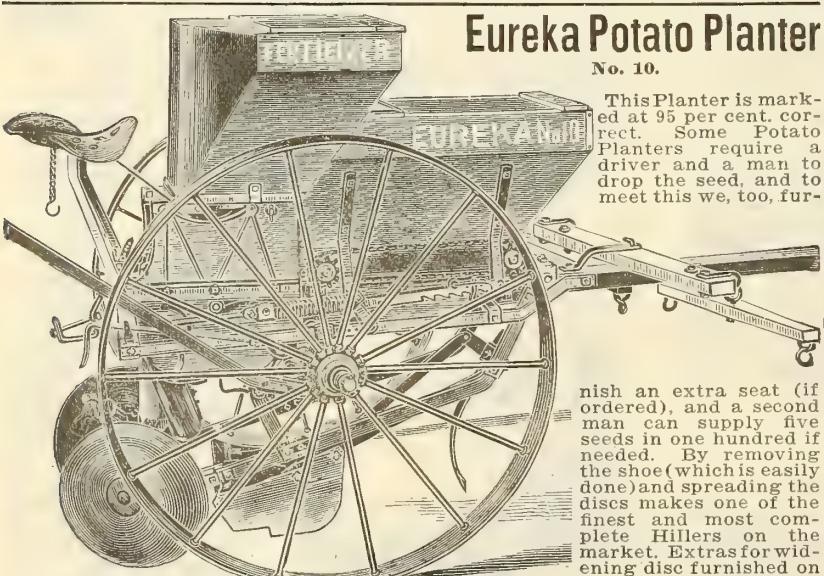
## Corn Planter Runners.

We are headquarters for Corn Planter Runners, made to fit the following named styles: Evans, Farmers' Friend, Hamilton, Barlow, Richmond Champion, Hench & Dromgold, Keystone Jr., U.S., Black Hawk, Challenge, etc. In ordering Planter Runners, always state, as near as possible, the year Planter was made; whether steel or wood frame; or, better still, a diagram showing position of hole and size of bend.



## Eureka Potato Planter

No. 10.



nish an extra seat (if ordered), and a second man can supply five seeds in one hundred if needed. By removing the shoe (which is easily done) and spreading the discs makes one of the finest and most complete Hillers on the market. Extras for widening disc furnished on application. Price 75c.

A handy lever raises the Plow, Disc and Marker, also throws the Planter in and out of gear. No. 10—Weight with Fertilizer Attachment, 480 pounds. Retail Price, \$60.00. List Price, \$100.00.

**"Peerless" Hand Potato Planter.**

## THE LIGHTEST TUBULAR PLANTER MADE.

Its spring-closed jaws are especially designed to enter the soil easily, yet open wide enough to drop the largest seed. The dropping lever or dump is adjustable for any depth of planting. The conveyor tube is galvanized iron.

Retail Price....\$1.00

List Price.....1.50

**Directions for Using.**—Walk erect—plunge planter into the soil—press forward as you withdraw it—seed is left in moist soil, not dry, as is usually the case when seed is dropped by one man and left to be covered by another.

**"Acme" Hand Potato Planter.**

This is similar to the above, except it is tubular but a stick planter. We do not carry these in stock, but can furnish them direct from the factory.

Same directions for working apply on this as on the "Peerless."

Retail Price, 75c. List Price, \$1.10.

**Eureka 2-Row Potato Planter**

No. 12.

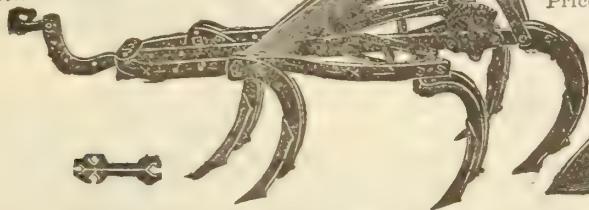
Weight, with Fertilizer Attachment, 700 lbs. Same in general construction as the Eureka No. 10, except it plants two rows at one time and does its work perfectly. Each gang works separately, and one independent of the other. All of these Planters have the celebrated Wizard Fertilizer Feed.

Special Retail Price, with Fertilizer Attachment, \$80.00. List Price, \$140.00.

## Lord Baltimore Cultivator and Horse Hoe

### Combined with Lever.

Equipped with the latest Improved Hollow Steel Standard and Lever Expander and outside Handle Braces. Extra high steel frame. Standards are interchangeable, there being no "right" nor "left" as in solid standards in general use. The horse hoe standards differ from the other three, and take either the regular cult. teeth or hillling attachments.



They have two holes to accommodate Hillers, and may be turned all the way around, thus giving any sideway angle desired. Hillers are reversible, and may be used with either point or rounded edge foremost.  
Price ..... \$4.50

## Cultivator and Horse Hoe



### BALTIMORE CULTIVATOR

Bent steel frame. The BALTIMORE has No. 82 Plates. Similar to the LORD BALTIMORE, except it has solid shanks instead of hollow steel. Heavy steel frame, diamond-shaped teeth, well braced and thoroughly well made in every particular.

Baltimore Cultivator, Plain ..... \$2.75  
Baltimore Cultivator and Horse Hoe, Plain ..... 4.00  
Baltimore Cultivator and Horse Hoe, with Wheel ..... 4.50  
FOR LEVER FOR BALTIMORE, OLD DOMINION OR ORIOLE CULTIVATOR, ADD 60c.

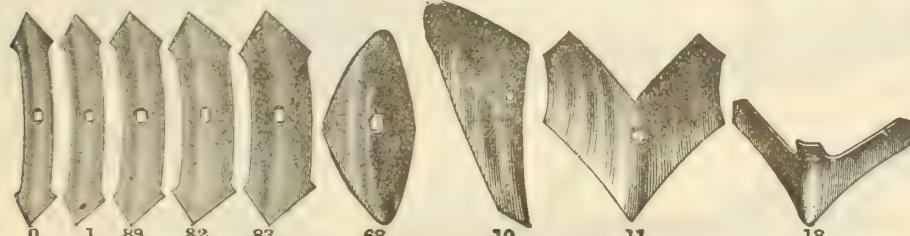
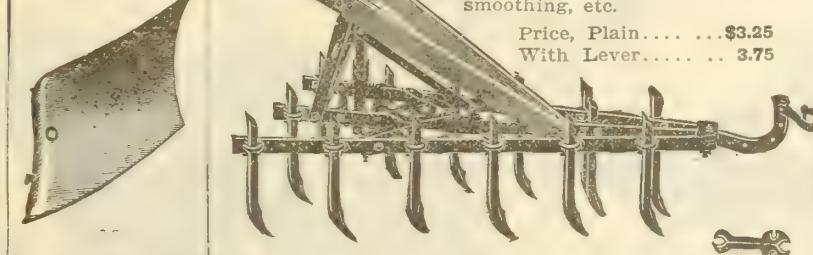


Leveler, 85c.

## Baltimore Combined Harrow and Cultivator.

Four positions of teeth, as shown in cut—straight, smoothing, etc.

Price, Plain ..... \$3.25  
With Lever ..... 3.75



No. 0—1  $\frac{1}{4}$ -inch Diamond Point Steel.....  
" 1—2-inch Diamond Point Steel.....  
" 82—3-inch Diamond Point Steel.....  
" 83—Or 3  $\frac{1}{2}$ -inch Diamond Point Steel.....  
" 84—Or 4-inch Diamond Point Steel.....  
" 68—Oval or Jersey Point Steel.....  
" 10—Turn Shovel, right or left, each.....  
" 11—6-inch Sweep, about 7 inches across, each.....  
" 11—8-inch Sweep, about 11 inches across, each.....  
" 16—Turn Shovel, each.....

Teeth for Baltimore Combined Harrow and Cultivator, Diamond-Shaped Steel, finished, per pair.

All of the Above Goods are of Best Steel and Highly Polished. Special Prices on Bolts in Quantities.

## Old Dominion Cultivator and Horse Hoe

The Old Dominion is similar to the Baltimore except that it is a little lighter and straight frame.

Sold principally in Virginia and the South, and wherever sold it becomes a favorite.

Old Dominion Cultivator, Plain ..... \$2.50

Old Dominion Cultivator and Horse Hoe, Plain ..... 3.75

Old Dominion Cultivator and Horse Hoe, with Wheel ..... 4.25

### Oriole

The Oriole is similar to the Old Dominion except that it has a bent frame.

Oriole Cultivator, Plain ..... \$2.50

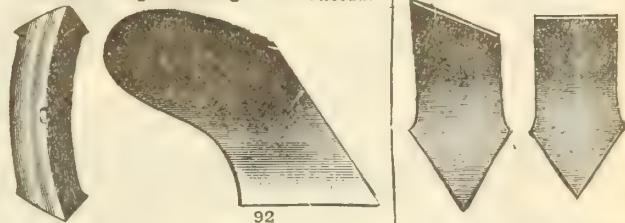
Oriole Cultivator and Horse Hoe, Plain ..... 3.75

Oriole Cultivator and Horse Hoe, with Wheel ..... 4.25

## Iron Age Cultivator and Horse Hoe

Cultivator, Plain.....	\$3.15
With Lever.....	4.15
Horse Hoe and Cultivator, Plain.....	4.30
Horse Hoe and Cultivator, with Wheel.....	4.90
Horse Hoe and Cultivator, with Lever and Wheel.....	5.90
Horse Hoe, Cultivator and Corn Coverer Combined, Plain.....	5.75
Horse Hoe, Cultivator and Corn Coverer Combined, with Lever.....	6.75

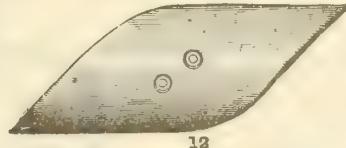
### For Iron Age Riding Cultivators.



### HILLING SHOVELS PRICES OF STEELS.

No. 90—1 $\frac{1}{4}$ inches wide, each.....	13c.
" 91—2 $\frac{1}{2}$ inches wide, each.....	14c.
" 92—Hilling Shovels, per pair	.75c.

Blades furnished without holes to be fitted, price each.....	.35c.
Bull Tongues, same as above, each.....	.30c.
Malta Riding Cultivator Blades, complete, with backs and bolts, each.....	.60c.
Malta Riding Cultivator, Calf Tongues, complete, with backs and bolts, each.....	.45c.



No. 18—15-inch sweep, each..... \$ .24

" 12—Horse Hoe, Steel, with Shank or Standard, per pair ..... 1.00

" 12—Horse Hoe, Steel, without Shank or Standard, per pair ..... .35

Horse Hoe Attachments complete, in three pieces.. 1.15

No. 18—8-inch Sweep, each.....	\$ .17
" 18—10-inch Sweep, each.....	.18
" 18—12-inch Sweep, each.....	.20
" 18—14-inch Sweep, each.....	.22
Wheels for Cultivators, each.....	.60
Levers for Cultivators, each.....	.85
Cultivator Plate Bolts, each.....	.03
Cultivator Frame Bolts, each.....	.03
Wheel Cultivator Clamps, each.....	.25
Set Screw Cultivator Clamps, each.....	.20

64c.

.75c.

# FARMERS' FAVORITE SINGLE, DOUBLE AND TRIPLE SHOVEL PLOWS.

## PRICES.

Farmers' Favorite, single-shovel Plow.	\$2.00
Farmers' Favorite, double-shovel Plow.	2.25
Triple-shovel Plows, Regular.....	2.75
Extra Heavy three-shovel Plows.....	3.00

## Steel Beam Georgia Stock No. 1.

For the purpose of attaching shovel blades or steels of any kind used on Shovel Plows. The beam is made of a plate of steel formed in the shape of a U bar, the front end being arranged with an adjustable clevis, dispensing with the need of a lap ring. The rear part of the beam forms a steel box for the Plow handles, thus making it impossible to split the handles. Regular Georgia Stock Plow Handles will fit these Plow Stocks.

Price..... \$1.10

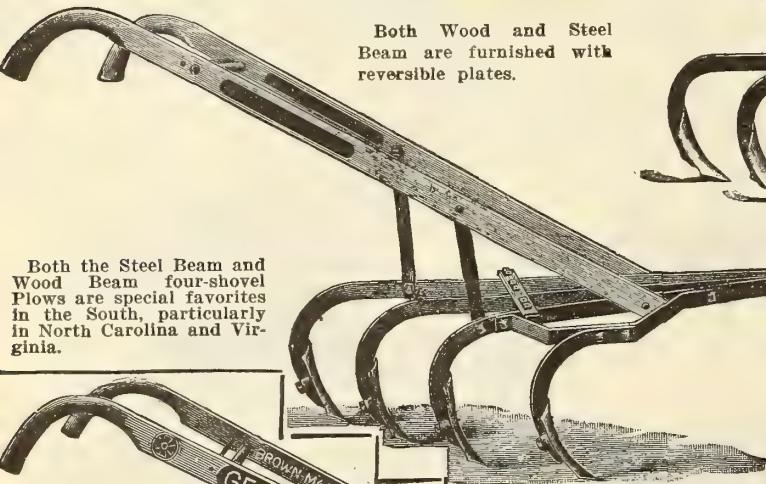
No. 3—With adjustable landside and rudder. This Plow Stock has an extra long and very strong beam and heavy foot. The construction of this steel beam makes this the best and strongest Plow Stock on the market.

Price, \$1.50.

## Steel Beam Four Shovel Plow.

PRICE \$3.25.

Both Wood and Steel Beam are furnished with reversible plates.



Both the Steel Beam and Wood Beam four-shovel Plows are special favorites in the South, particularly in North Carolina and Virginia.

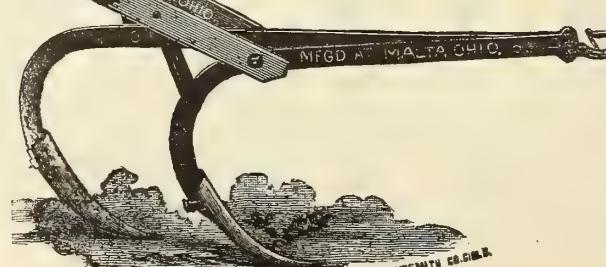
## THE ORIGINAL AND GENUINE

## "Malta" Iron Beam Single and Double Shovel Plows.

Has  $1\frac{1}{4} \times \frac{3}{4}$ -inch Beam.

PRICE.

Double Shovel Plow..... \$3.00  
Single Shovel Plow..... 2.50



The cost of these goods is not so much in the finish, as in the construction and material, these being the principal requisites in an implement.

## Four Nut Shovel Plow Spreader Bolts.

For Beams and Handles, each..... 25c.  
Shovel Plow Clevis, 20c.

## Shovel Plow Handles.

Finished, for Single and Double Shovel Plows, complete with round and rod, per set.....	75c.
Finished, without round and rod, per pair .....	60c.
Finished and bored, right and left, each.....	30c.

## Shovel Plow

PRICE EACH 35c.

## Fender.

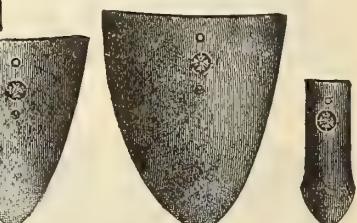
## Wood

## Beam Four Shovel Plow.

PRICE \$3.25.

## Steels.

For Single and Double Shovel Plows.



Full and complete line of polished steels for Single and Double Shovel Plows made in both one and two-hole styles.

Genuine Malta Double or Single Shovel Plow Steels, per pound,	.08
Farmers' Favorite, Triple Shovel Plow Steels, per pound.....	.08
Farmers' Favorite, Single and Double Shovel Plow Steels, per pound.....	.07
Bolts for Shovel Plow Blades, each,.....	.05
Four Shovel Plow Steels, $2\frac{1}{2}$ -inch, each,.....	.08
Four Shovel Plow Steels, $3\frac{1}{2}$ -inch, each.....	.09
Four Shovel Plow Steels, 4-inch, each.....	.10

## Hench Champion Steel Walking Cultivator.

WITH SHOVEL BEAM HOISTED AND HELD UP BY SPRINGS ALONE.



The shovel gangs are coupled by cone and socket bearing to the axle, which is 6½ inches in front of the wheel spindles, and when the shovel gangs are raised up the entire frame of the machine drops down about 6 or 7 inches, and this weight, together with the aid of the springs, raises the drag bars without any assistance whatever from the operator, and holds them up. It is a perfect balance, and will not tilt the tongue up when the shovel gangs are hoisted. The drag bars can be furnished with three, four or five shovels on each gang, making it 6, 8 or 10-shovel Cultivator. These shovel standards can be adjusted or placed at almost any position required. It is also made with spring trip shovels. Each machine is furnished with a pair of 1½-inch bull tongues and a pair of hillling shovels, in addition to the other shovels. Either rotary or sheet steel fenders are furnished with either style of machine.

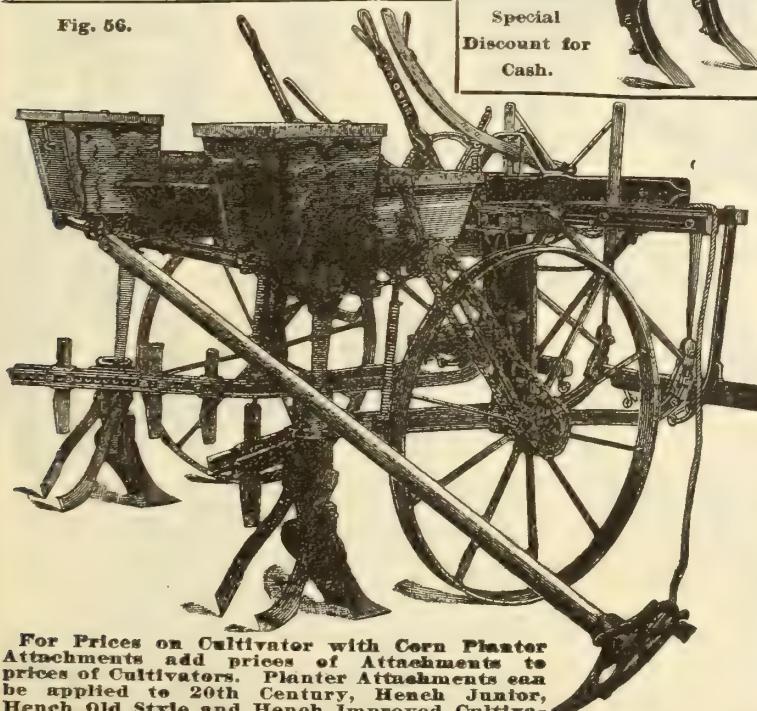
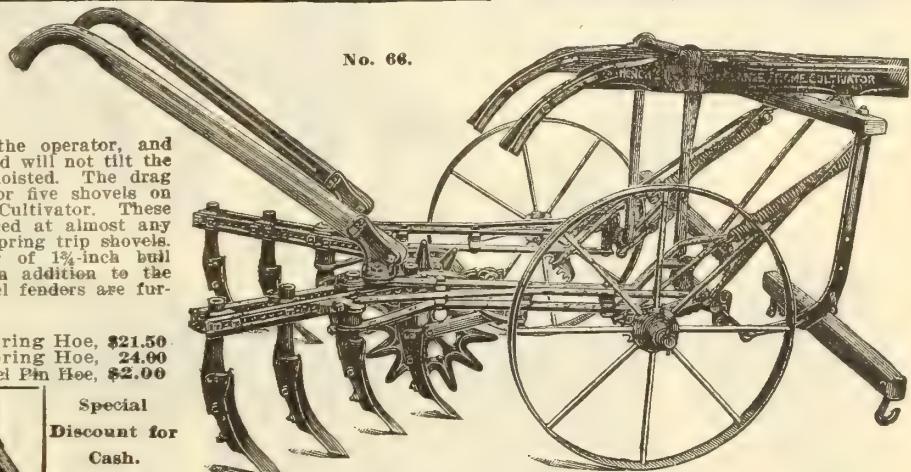
### PRICES.

6-shovel Pin Hoe, \$18.00	6-shovel Spring Hoe, \$21.50
8-shovel Pin Hoe, 19.50	8-shovel Spring Hoe, 24.00
Two Standards and Shovels to make 10-shovel Pin Hoe, \$2.00	

Fig. 56.

Special  
Discount for  
Cash.

No. 66.



For Prices on Cultivator with Corn Planter Attachments add prices of Attachments to prices of Cultivators. Planter Attachments can be applied to 20th Century, Hench Junior, Hench Old Style and Hench Improved Cultivators, but when ordering it is necessary to state for which Cultivator it is intended.

In the annexed cut is seen our six-shovel Corn and Fallow Cultivator, with seventh or middle shovel.

Perfect spring pressure and hoisting device for regulating the shovel beams or drag bars for deep or shallow cultivating.

The high arch permits its use in high corn, and, being firmly braced, gives it great strength.

We furnish the same patent spring hoe that is used on our riding Cultivators for rocky or stumpy land at small extra cost.

### PRICES.

4-shovel Pin Hoe.....	\$16.50
6-shovel Pin Hoe.....	16.50
8-shovel Pin Hoe.....	18.00
Seventh or Middle Beam.....	1.50
4-shovel Spring Hoe.....	19.00
6-shovel Spring Hoe.....	20.00
8-shovel Spring Hoe.....	22.50
Seventh or Middle Shovel.....	2.25

In addition to the regular shovels, 2 ball tongues and 2 hillling shovels accompany each machine.

### Special Discount for Cash.

## Hench Balance Frame Walking Cultivator. WITH PARALLEL BEAMS.

## 20th CENTURY CORN PLANTER ATTACHMENT.

Fig. 56 shows the 20th Century Cultivator with double 2 rows. The corn planter is also furnished without the row planter and fertilizer attachment, rigged, for planting fertilizer attachment.

All Cultivators are made so that the planter can be attached at any time. It will plant accurately, almost any depth required, one grain 11, 13 or 15 inches, or two grains 22, 26 or 30 inches apart, and additional dies can be furnished at a small cost for sowing ensilage corn or for peas, beans and other seeds.

It can be set to plant rows from 2 feet 10 inches to 4 feet apart. The cost for a 2-row planter attachment is but a trifle more than a single row.

### Special Discount for Cash.

#### Price of Planter Attachment.

Double-Row Planter Attachment, plain.....	\$15.00
Double-Row Planter Attachment, with Fertilizer Attachment .....	29.00

## STEELS FOR HENCH & DROMGOLD'S RIDING CULTIVATORS AND CHAMPION WALKING CULTIVATORS.

1¾ in. Plain Shovel, O. S., without revolving backs.	12c.
2½ in. Plain Shovel, O. S., without revolving backs.	15c.
2½ in. Plain Shovel, N. S., with revolving backs.	20c.
3½ in. Plain Shovel, O. S., without revolving backs.	20c.
3½ in. Plain Shovel, N. S., with revolving backs.	25c.
6x12 Blade, with revolving back, for 4-shovel Cultivator	40c.
Hilling Shovels.....	50c.

## Hench's 20th Century Steel Ball Coupling Cultivator. FIG. 50

This is a perfect machine for both rolling and level land. Pivot axle, easy of adjustment, simple arrangement to accommodate the machine for narrow rows. Can be furnished either for pin or spring hoe.

The shovel gangs are coupled in front by steel balls,  $1\frac{1}{2}$  inches diameter, and malleable sockets having larger running surface and no lost motion whatever. This simple arrangement prevents the lateral movement so common in this style of machine, so that, if the shovel happens to strike a bunch of grass, it will not glance around, but will cut it out.

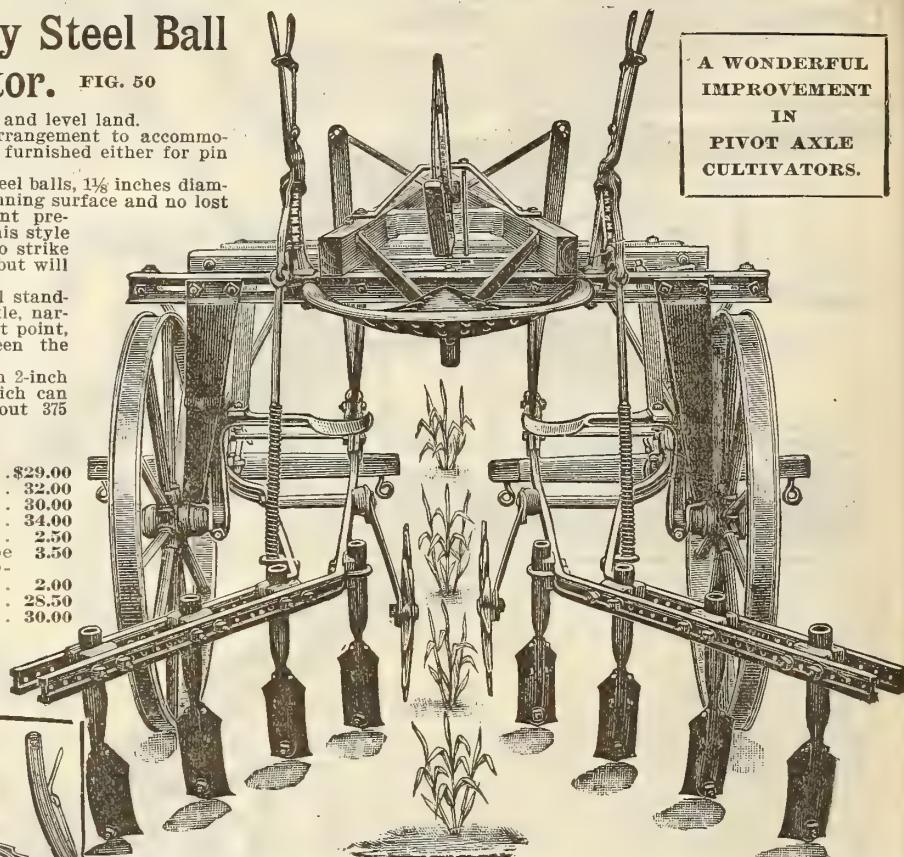
By simply slackening four nuts on the wheel standards they can be moved in or out on the axle, narrowing the wheels from 46 inches, the widest point, to 34 inches, the narrowest point, between the wheels.

Wheels 32 inches high, made of steel, with 2-inch tread, malleable hubs, removable boxes, which can be replaced when worn out. Weight, about 375 pounds.

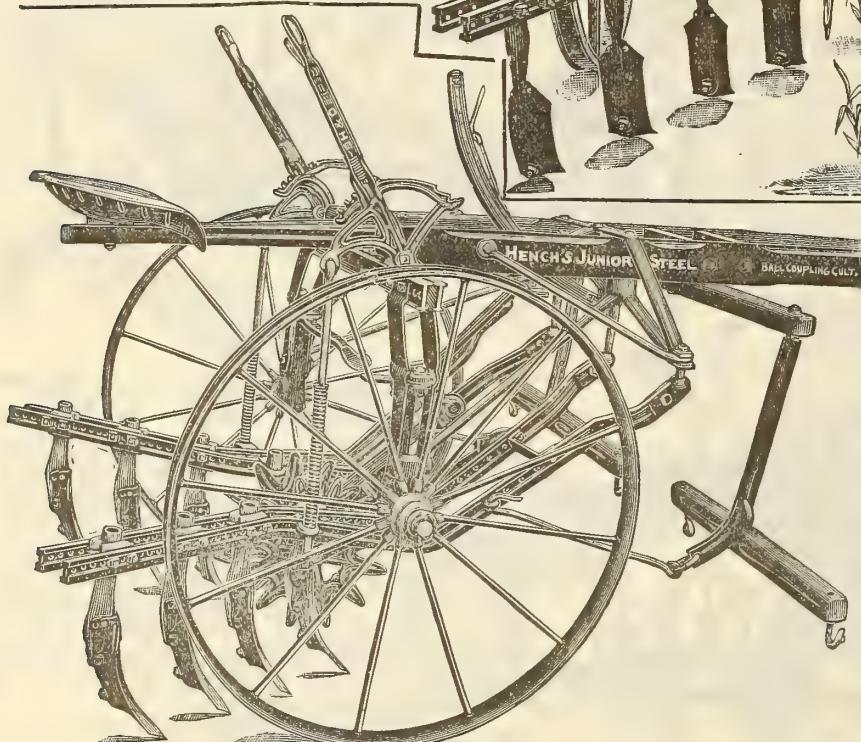
### PRICES.

6-shovel Pin Hoe.....	\$29.00
6-shovel Spring Hoe.....	32.00
8-shovel Pin Hoe.....	30.00
8-shovel Spring Hoe.....	34.00
2 Center Beams and Shovels, Pin Hoe.....	2.50
2 Center Beams and Shovels, Spring Hoe.....	3.50
2 Standards and Shovels to make 10-shovel Pin Hoe.....	2.00
4-disc Cultivator, with 13-inch discs.....	28.50
6-disc Cultivator, with 13-inch discs.....	30.00

### SPECIAL DISCOUNT FOR CASH.



A WONDERFUL  
IMPROVEMENT  
IN  
PIVOT AXLE  
CULTIVATORS.



### Hench Junior Steel Ball Coupling Cultivator, No. 62. With 36-in. Wheels.

The above cut represents our Hench Junior Cultivator, with 36-inch wheels. It is similar to our Twentieth Century, except the axle standard allows the wheels to pass over the axle, and is recommended where extremely narrow rows are not cultivated.

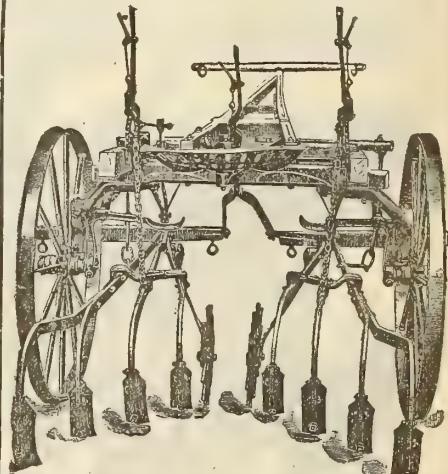
It is made with three, four or five shovels on each gang, making it six, eight or ten shovel Cultivator for rowed crops, with a pair of  $1\frac{1}{4}$ -inch bull tongues for first cultivation and one pair of hillling shovels for last cultivation of rowed crops.

It can be rigged with two middle beams and shovels, making a 12-shovel Cultivator for fallow cultivation. It also can be furnished with Double Row Corn Planter Attachment, as shown in the Twentieth Century Cultivator, Fig. 56 (see Page 110).

PRICES.—6-shovel Pin Hoe, \$28.00; 6-shovel Spring Hoe, \$31.00; 8-shovel Pin Hoe, \$29.00; 8-shovel Spring Hoe, \$33.00; 2 Center Beams and Shovels, Pin Hoe, \$2.50; 2 Center Beams and Shovels, Spring Hoe, \$3.50; 2 Standards and Shovels to make 10-shovel Pin Hoe, \$2.00; 4-disc Cultivator, with 13-inch discs, \$27.75; 6-disc Cultivator, with 13-inch discs, \$29.25.

### SPECIAL DISCOUNT FOR CASH.

### The Hench Improved Pivot Axle Cultivator.



It can be narrowed from 47 inches to 36 inches between the wheels, thus enabling the operator to cultivate rows from 2 feet up to 4 feet apart. We use steel wheels 36 inches high, with renewable boxes. The spindles are  $1\frac{1}{2}$  inches round steel, 3 inches long, and can be renewed very quickly by any blacksmith. We furnish it with either three or four shovels on each side, or drag bar as desired. Also a pair of hillling shovels and one pair of bull tongues.

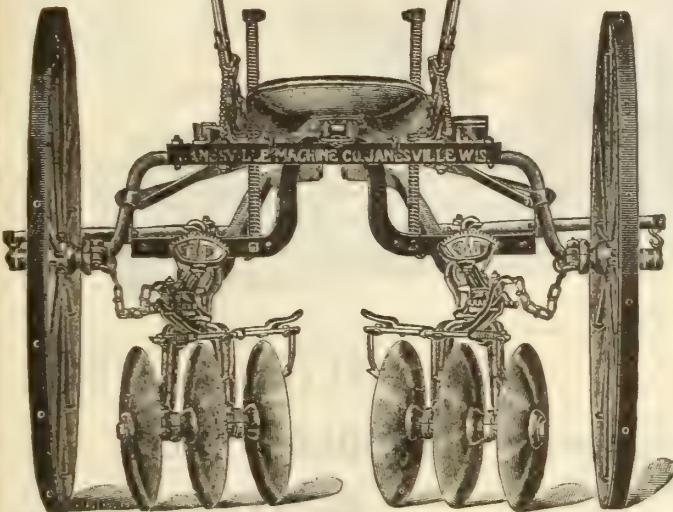
6-shovel Pin Hoe, \$28.00; 6-shovel Spring Hoe, \$31.00; 8-shovel Pin Hoe, \$30.00; 8-shovel Spring Hoe, \$34.00; 2 Center Beams and Shovels, Pin Hoe, \$2.50; 2 Center Beams and Shovels, Spring Hoe, \$3.50.

### SPECIAL PRICES FOR CASH.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

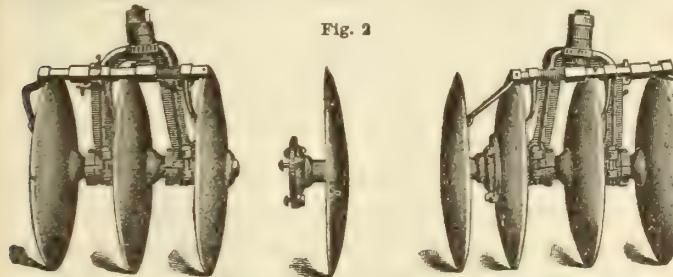
Is strong, positive and effective.

Simplicity,  
strength, easy  
adjustment,  
perfect  
sensitivity.



Prices, less Levelers and Lister Bars.....	\$35.00
Levelers, per pair.....	1.75
Four-shovel Attachment Pin Hoe.....	7.00
Six-shovel Attachment Pin Hoe.....	7.50
Four-shovel Attachment Spring Trip.....	8.00
Six-shovel Attachment Spring Trip.....	9.00
16-inch discs and thimble for attachment to gangs, per pair.....	4.00

Fig. 2



This cut shows the gangs with a fourth disc attachment and how easy it is for one to convert the Janesville Disc Cultivator into a disc harrow.

## Janesville Disc Cultivator

Steel wheels; removable dustproof box; disc gangs heavy construction; chilled wearing boxes in the yoke; light draft; angle of the discs and the tilt of the frame accomplished by levers. The one machine that is imitated by other Disc Cultivator manufacturers.

A hand lever, operated without leaving the seat, sets the gangs at any desired cutting angle and enables the driver to throw as much dirt to the plants as he desires.

Any change made in the angle of the gangs does not affect the position of the shields and levelers.

The foot levers, the gangs and the coupling arms that control the tilt of the gangs and shields are positive in their action, and never slip when set, because they are held by interlocking teeth.

The yoke boxes in the gang yoke are renewable. It is never necessary to buy a new gang yoke when the bearings of the yoke boxes wear out. This feature will be appreciated.

The spring pressure feature of the Janesville Disc Cultivator enables the operator to put the gangs as deeply as desired into the hardest soil.

As the gangs are hung on springs the guiding is done by foot pressure instead of by shoving sidewise. The discs follow the shape of the ground evenly because of their adjustment with the wheels.

You can run it up close to the young plant without cutting off or wounding the lateral roots. (See Fig. 3.)

The Janesville cuts and buries trash, vines, stalks and kills the weeds. It does not shave clods and stalks against the young plant to break it down or bury it.

We produce with this implement a layer of pulverized light mulch, checking evaporation by day, absorbing night dew (as may be seen by inspection in the early morning), and also acting as a blanket to store the warmth of the day's sunshine through the night.

Fig. 3.

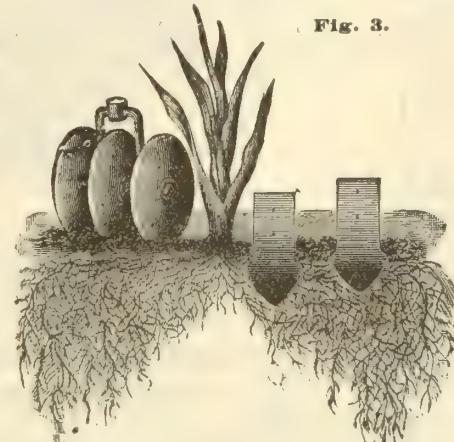


Diagram of a corn plant showing advantage of using the Janesville Disk Cultivator. Perfect tillage without injury to the roots of the young plants.

## Janesville Walking Cultivator.

The Crown Walking Cultivators are built with a strong, thoroughly braced frame. The arch is high enough to clear the corn the last working, and wide enough to enable the operator to get the shovels close to the plant.

The shovels are made of the best material, tempered with great care and finished in best style.

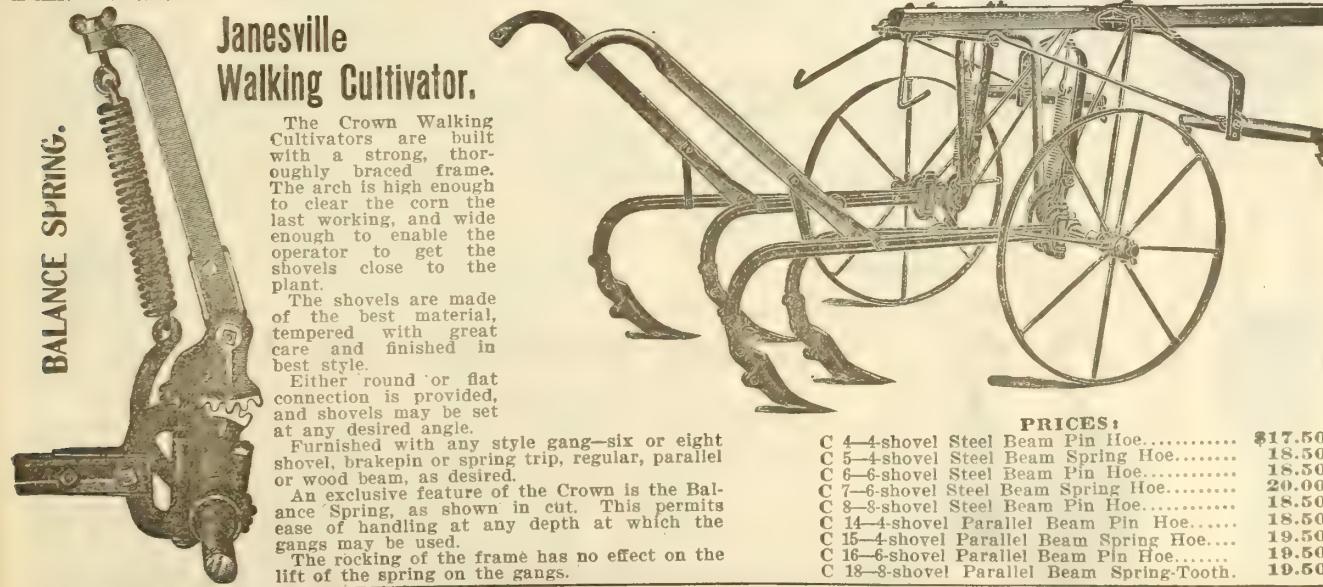
Either round or flat connection is provided, and shovels may be set at any desired angle.

Furnished with any style gang—six or eight shovel, brakepin or spring trip, regular, parallel or wood beam, as desired.

An exclusive feature of the Crown is the Balance Spring, as shown in cut. This permits ease of handling at any depth at which the gangs may be used.

The rocking of the frame has no effect on the lift of the spring on the gangs.

BALANCE SPRING.



PRICES:	
C 4-4-shovel Steel Beam Pin Hoe.....	\$17.50
C 5-4-shovel Steel Beam Spring Hoe.....	18.50
C 6-6-shovel Steel Beam Pin Hoe.....	18.50
C 7-6-shovel Steel Beam Spring Hoe.....	20.00
C 8-8-shovel Steel Beam Pin Hoe.....	18.50
C 14-4-shovel Parallel Beam Pin Hoe.....	18.50
C 15-4-shovel Parallel Beam Spring Hoe.....	19.50
C 16-6-shovel Parallel Beam Pin Hoe.....	19.50
C 18-8-shovel Parallel Beam Spring-Tooth.....	19.50

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

## Walter A. Wood New Century Grain Binder.

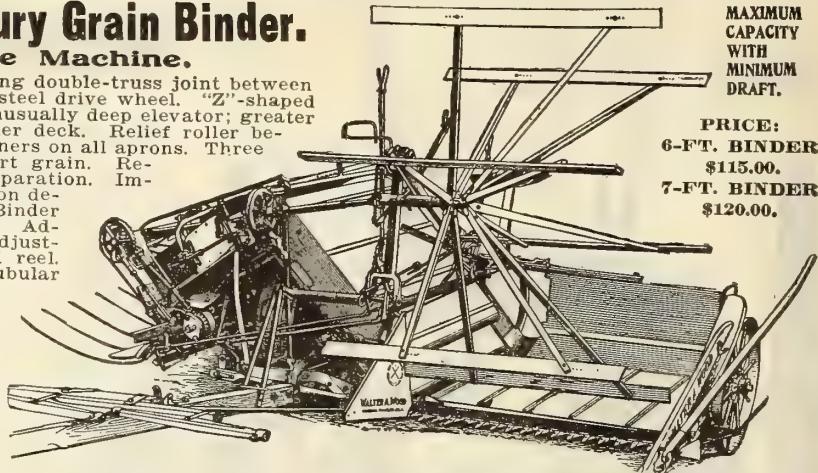
A Genuine Two-horse Machine.

Rigid main shaft of heavy angle steel. Strong double-truss joint between main frame and platform. Great 36-inch all-steel drive wheel. "Z"-shaped finger bar. Low elevators with easy slope. Unusually deep elevator; greater capacity for heavy crops. Steep-pitched binder deck. Relief roller between elevators and deck. Automatic tighteners on all aprons. Three under-packers, assuring perfect work in short grain. Revolving discharge-arms, making perfect separation. Improved spring dropboard. Improved compression device. Unequalled knotter, grasper and tension. Binder driven from the rear. Easily threaded binder. Adjustable butting device. Ease and range of adjustment of binder. Improved and strengthened reel. New and improved simple transport. New tubular seat support. New spring tightener on drive chain. Improved non-wearing spring clutch. Improved support for rear end of crankshaft. Liberal use of roller and ball bearings.

### Binder Canvas

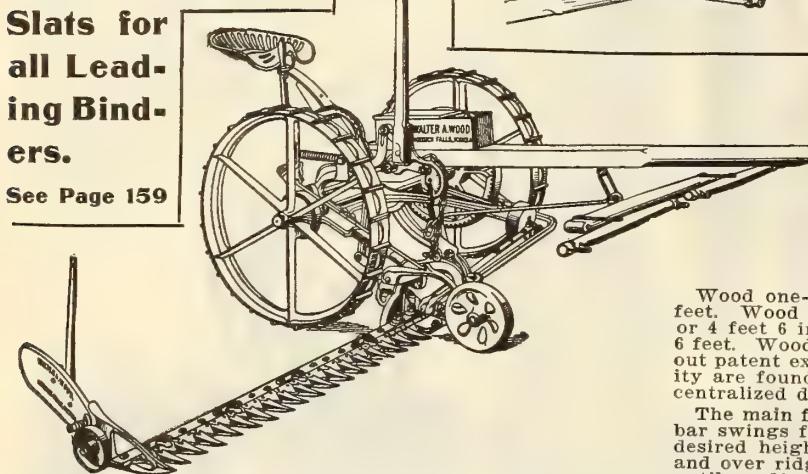
Slats for  
all Lead-  
ing Bind-  
ers.

See Page 159



MAXIMUM  
CAPACITY  
WITH  
MINIMUM  
DRAFT.

PRICE:  
6-FT. BINDER \$115.00.  
7-FT. BINDER \$120.00.



## THE WALTER A. WOOD TUBULAR STEEL MOWERS.

Wood one-horse Mowers cut a swath 3 feet 6 inches or 4 feet. Wood two-horse Mowers cut a swath 4 feet 3 inches or 4 feet 6 inches; with our patent axle extension, 5 feet or 6 feet. Wood Giant Mowers cut 5 feet, 6 feet or 7 feet, without patent extension axle. Three especial points of superiority are found in all Wood Mowers: The floating frame, the centralized draft and the improved foot-lift.

The main frame of the Wood Mower supporting the cutter-bar swings freely from the axle. Set your cutter-bar at the desired height, and up hill and down hill, through hollows and over ridges it will cut all the grass at that same height until readjusted. The floating frame does this. Only Wood Mowers have floating frames.

The tilt-lever is right at the hand of the operator, and like all Wood levers, operates easily and instantly.

We furnish either cast or steel wheels.

### WOOD MOWERS PULL DIRECT FROM THE DRAFT ROD

under the tongue attached to a point in the main frame proved to be the exact center of draft. The horses pull the cutter-bar and the truck follows after. No pulling whatever is done by the tongue, consequently no weight on your horses' necks.

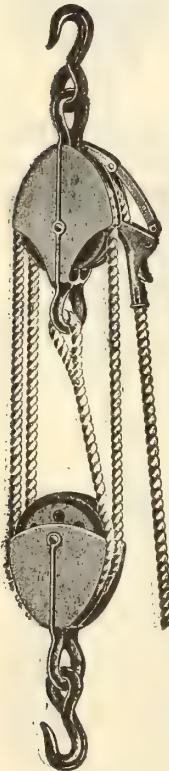
The Wood improved foot-lift raises the cutter-bar in a line full 20 inches—does it instantly and easily.

At its most distant point the foot-lever is easily reached from the seat. A slight pressure raises the bar above all ordinary obstacles—stumps and stones. The machine stays in gear. Release the pressure on foot-lift and the bar drops immediately.

A range of 5½ inches in the tilt of the cutter-bar makes cutting close to the ground easy.

### PRICES:

3 ft.—6 and 4 ft., one horse.....	\$37.50
4 ft.—3 and 4 ft. 6 in., two horse.....	40.00
5 ft., two horse .....	42.00
6 ft., two horse .....	45.00



## Walter A. Wood New Century Corn Binder.

It will cut on any ground that a team can travel, and operates as well on a side hill as on the level. It is tilted to conform to uneven ground by a lever placed close to the seat, and has a raising and lowering device with a range of 15 inches. One pair of ordinary horses can work it all day, and it is an easy machine on both driver and team.

Write for prices.

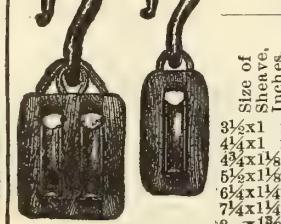
## THE CANTON HOIST

No. 33—Two sheaves above, two sheaves below; for  $\frac{1}{2}$  to  $\frac{5}{8}$  inch rope; capacity 1,500 lbs. One man can lift 500 lbs. 4-inch sheaves. Factory list, \$6.00. Our retail price, \$4.00.

No. 37—Two sheaves above, two sheaves below; for  $\frac{1}{2}$ -inch rope, capacity, 800 lbs. One man can lift 400 lbs. 3-inch sheaves. Factory list, \$4.00. Our retail price, \$3.00.

Rope not included in price.

## Regular Iron-Strapped Blocks.



Size of Sheave, Inches.	For Diam. Rope, In.	Length of Shell, In.	Common Iron Bushed			Patent Roller Bushed		
			Single.	Double.	Triple.	Single.	Double.	Triple.
3½x1	1½	6	\$1.10	\$0.50	\$2.00	\$0.90	\$2.90	\$1.30
4x1	1½	7	1.30	0.60	2.40	1.10	3.50	1.60
4½x1½x5½	1	8	1.65	0.75	2.85	1.30	4.25	1.95
5½x1½x5½	1	9	1.85	0.85	3.40	1.50	4.75	2.15
6½x1½x5½	1½	10	2.75	1.25	4.50	2.05	6.25	2.95
7½x1½x5½	1½	11	4.45	2.00	7.50	3.40	10.65	4.80
8 x1½x5½	1½	12	4.45	2.00	7.50	3.40	10.65	4.80



SECTION AND GUARD RIVETS.

KNIFE HEAD.



GUARD.

GUARD BOLT. SMOOTH SECTION. LEGER PLATE.



MOWER KNIFE.

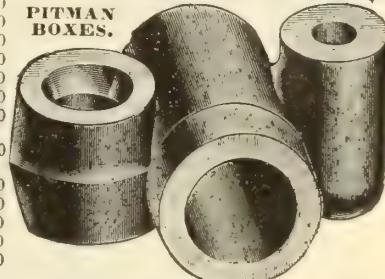
REAPER SICKLE.

## MOWER SMOOTH SECTIONS, KNIVES AND GUARDS.

Made to fit the following Machines.	Size of Section.	Retail Price of Section	No. of Guard.	Retail Price of Guard.	No. of Knife Head.	Retail Price of Knife Head	Knives complete. 4 1/2 ft.	Knives complete. 5 ft.	Pitman Boxes No.	List Price of Pitman Boxes	Retail Price of Pitman Boxes
Wood	3x3 1/8	.05	A	.25	1680	.35	\$2.40	\$2.50	539-540	.60	.50
Wood	3x2 5/8	.05	P. P.	.25	1810	.35	2.40	2.50	291 1/2	.60	.60
Deering	3x3 1/4	.05	D 442	.25	F 123	.35	2.10	2.50	1785	.60	.40
Deering	3x3 1/8	.05	F 99 1/2	.25	F 174	1.00	2.40	2.50	D 334	.90	.80
McCormick	2 1/4 x 3 1/8	.05	F 99 1/2	.25	F 74	1.00	2.40	2.50	M 317	.50	.40
McCormick	3x3 1/8	.05	M 462	.25	M 139	.25	2.40	2.50			
Champion	3x3 1/8	.05	M 253	.25	M 139	.25	2.40	2.50			
Champion	3x3 1/8	.05	A 41	.25	A 415	.50	2.40	2.50			
Champion	3x3 1/8	.05	A 811	.25	A 415	.50	2.40	2.50	A 747	.50	.40
Champion	3x3 1/8	.05	A 465	.25	A 415	.50	2.40	2.50			
Champion	3x3 1/4	.05	A 41	.25	B 37	.50	2.40	2.50			
Champion	3 1/2 x 3 1/4	.05	4	.25	B 37	.50	2.40	2.50			
Osborne	3x3 High Punch	.05	K 280	.25	K 284	.25	2.40	2.50	K 278	.90	.50
Osborne	3x3 Low Punch	.05	K 72	.25	K 212	.25	2.40	2.50			
Johnston	3x2 3/8	.05	897	.25	919	.25	2.40	2.50			
Johnston	3x3 1/8	.05	77	.25	124	.25	2.40	2.50	257	.40	.40
Plano	3x2 1/8	.05	H 46	.25	J 94	.25	2.40	2.50	J 100	.30	.25
Plano	3x3 1/8	.05	P K 5	.25	P.G. 6	.25	2.40		J 99	.75	.40
Milwaukee	3x3 1/8	.05							P J 50	.80	.25
Milwaukee									P J 173	.25	.25
Adriance Buckeye	3x3 1/8	.05	564	.25	557 F	.40	2.40	2.50			
Akron Buckeye	3x3 3/8 Low Punch	.05	775	.25	301	1.00	2.40	2.50			
Akron Buckeye	3x3 3/8 High Punch	.05	775	.25	301	1.00	2.40	2.50			
Whiteley	3x3 1/4 Low Punch	.05	A 16	.25	A 57	1.00	2.40	2.50			
Whiteley	3x3 1/4 High Punch	.05	A 185	.25	15	1.00	2.40	2.50			
Eureka	3x2 5/8	.05	40	.25	66 B	.50	2.40	2.50			
Eureka	3x3 1/8	.05	40 D	.25	66 B	.50	2.40	2.50			
Manny	3x3 3/8	.05	A	.25	{ Mal. Lock Nut }	1.00	2.40	2.50			
Warrior	2 1/4 x 3	.05	W	.25	1470	1.00	2.40	2.50			
Warrior	2 1/2 x 2 7/8	.05	V	.25	1699	.50	2.40	2.50			
Triumph	3x3 1/8	.05	635	.25	6139	.50	2.40	2.50			
Empire	3x3 3/8	.05	55	.25	Forged	1.00	2.40	2.50			
Bradley	3x3 1/8	.05	400	.25	736	.50	2.40	2.50			

Prices on application.

PITMAN BOXES.



## BINDER SICKLE SECTIONS, GUARDS AND KNIVES.

Made to fit the following Machines.	Size of Section.	Retail Price of Section	No. of Guard.	Retail Price of Guard.	No. of Knife Head.	Retail Price of Knife Head.	Knives complete. 6 ft.	Knives complete. 6 1/2 ft.	Knives complete. 7 ft.
Wood Binder	3 x 2 5/8	.05	W	.25	H 2139	.40	\$2.75	...	\$3.00
Wood Binder	3 x 2 1/8	.05	H 171	.25	H 1150	.35	...	\$3.00	
Deering Binder	3 1/4 x 2 1/8	.05	286	.25	H 260	.25	2.75	...	3.00
Deering Binder	3 1/8 x 2 5/8	.05	286	.25	A 46	.50	2.75	...	3.00
McCormick Binder	3 x 2 1/8	.05	H 495	.25	B 23	.25	2.75	...	3.00
Champion Binder	3 x 2 5/8	.05	U 53	.25	1852	.50	2.75	...	3.00
Osborne Binder	3 x 2 1/4	.05	D 300	.25	B 587	.25	2.75	...	3.00
Johnston Binder	3 x 2 3/8	.05	50 A	.25	L 296	.25	...	3.00	3.00
Plano Binder	3 x 2 1/8	.05	L 300	.25	J 395	.25	2.75	...	3.00
Plano Binder	3 x 2 1/2	.05	L 67	.25	L 66	.25	2.75	...	3.00
Milwaukee Binder	3 1/8 x 2 1/4	.05	J 76	.25	H 417 <sub>8</sub>	.25	2.75	...	3.00
Adriance Binder	3 x 2 1/2	.05	1265	.25	1245 A	.40	2.75	...	3.00
Akron Buckeye Binder	3 x 2 1/2	.05	T 35	.25	H 700	1.00	2.75	...	3.00
Triumph Binder	3 x 2 1/2	.05	2	.25	615	.70	2.75	...	3.00

Leger Plates for all Machines, 5c. each. Section and Guard Rivets, 20c. lb. Guard Bolts for all Machines, 4c. each.

Above we give a table of sizes, numbers and prices of Sections, Guards, Knife Heads and Knives complete, and combinations generally used. In some cases more than one Knife Head and Guard have been used with the same section. In ordering, always give number of Guard and Knife Head, also drawing of Section wanted, showing holes punched in Section. In ordering Knives complete, always give number of old Knife Head.



KNIFE CLIPS



WOOD PITMANS



WEARING PLATES

## KNIFE CLIPS

To Fit The Following Machines:

	Price ea.
Champion, A413, A468, A467, A693...	.10
Deering, F94, E461, F92...	.10
McCormick, M254, M538, H496, H919, L39...	.10
McCormick, M290, M293, M652...	.15
Milwaukee, J1, Osborne, E36...	.10
Osborne (Columbia), K256...	.20
Plano, J46, J106, J325...	.10
Wood, 171, 1432...	.10

## WEARING PLATES

To Fit The Following Machines:

Champion, H315, Under Shoe Cap.	
Champion, H282, Under Clips.	
Deering, D1038, Under Clips.	
Deering, D1040, Under Shoe Cap.	
Deering, D1455, Under Shoe Cap.	
McCormick, M468, Under Clips.	
McCormick, M490, Under Shoe Cap.	
Milwaukee, PK156, Under Clip PJ1.	
Milwaukee, PG157, Under Shoe Cap.	
Osborne, K325, Under Clips.	
Osborne, K326, Under Shoe Cap.	
Plano, 7094, Under Clips.	
Plano, 7095, Under Shoe Cap.	

List price, ea., 15c. Retail price, ea., 10c.

## Hand-Made Grain Cradles

Made from the Best Material, with English and American Blades.

Hand-made Schwab Cradle, with English Waldron Blade, retail, \$4.50.

Hand-made Schwab Cradle, with American Blade, retail, \$3.25.

## FACTORY-MADE CRADLES

Factory-made Cradle, American Blade, five fingers, complete with Scythe, No. 5, \$3.25. Factory-made Cradle, American Blade, six fingers, complete with Scythe, No. 5 1/2, \$3.50.

Cradle Fingers, 15c. each.

## SCYTHE STONES

## THE AMERICAN SICKLE EDGE HAY KNIFE \$1.25

The best cutting knife made. Right or left hand. Section can be easily replaced.

LIGHTNING PATTERN HAY KNIFE. PRICE 75 Cts

GENUINE T. WALDRON  
SCYTHES.

SCYTHE SNATHS.

## SCYTHE STONES

SIR PYRES, MOSTYN TALACRE QUARRIES

No. 1—Willoughby Creek.	10c., \$1.00 dozen.
No. 4—Indian Pond No. 2 (red end)	.5c., 50c. dozen.
No. 5—Mowing Machine (beveled)	10c. each.
No. 6—Darby Creek	10c., \$1.00 dozen.
No. 7—Imported English Talacre	20c. each.
None genuine unless labeled Sir Pyres Mostyn, Talacre Quarries.	
Cigar Emery	10c. each.

## MANILA, SISAL AND COTTON ROPE.

Always on hand, the best Manila, Sisal and Cotton Rope, in coils or by the piece, at prices consistent with quality. Prices on Application.

Approximate length of Manila and Sisal Rope, per pound:  $\frac{3}{4}$  diameter, 6 feet to pound; 13-16 diameter, 6 feet to pound;  $\frac{5}{8}$  diameter, 4 feet 3 inches to pound.

We recommend 13-16 inch Rope for hay forks.

BINDER TWINE. Prices on Application.

FODDER YARN. Have always on hand large quantities of the above. Prices on Application.



PITMAN STRAPS OR CLASPS

## PITMAN WOODS

To Fit The Following Machines:  
Deering (Ideal Mower). Milwaukee (No. 6 Mower).

Finished and Bored, Without Straps, Bolts or Boxes.

McCormick (Big 4 Mower). Plano (Jones Mower). Each 40c.

## Pitman Straps or Clasps

To Fit The Following Machines:

Malleable Deering, D464, D465, D605, D606, D470, D607...each 20c.

Malleable McCormick, M556, M557, M147, M304, M315...each 20c.

Malleable Milwaukee, PJ9, PJ9 1/2, PH34, PH35...each 20c.

Malleable Plano, J118, J119, J120, J121...each 20c.

Plano, J378, Steel (will answer for 355). Plano, J379, Steel (will answer for 356). Plano, J380, Steel (will answer for 357, 358)...each 20c.

## PITMAN BOLTS \*

To Fit The Following Machines:  
Deering, Knife End. Deering, Box End.

McCormick, M322, with Nut. McCormick, M483, with Nut 2 1/2 x 7

McCormick, 483 1/2, with Nut 3 x 15. Milwaukee, with Horn Nut, PG174.

Milwaukee, with Ratchet Nut, PG175. Osborne, Box End (Long).

Osborne, Knife End (Short). Plano, 7/8 x 3 with Nut J134.

Plano, 7/8 x 2 1/2 with Nut J103. Plano, 7/8 x 2 1/2 with Nut J147. Plano, 7/8 x 2 1/2 with Nut J363. Each, 10c.

Buckeye, complete with washers. 15. Champion, H442, with Nut. 15. Champion, H609, with Nut. 15. Champion, 1/2 inch, Left, A96. 20. Champion, 1/2 inch, Right, No. 13. 20. Champion, 5/8 inch. 20. Wood, with Nut. 20. Each

## SCYTHES.

English T. Waldron, 36 inch, Grass.	\$1.35
English T. Waldron, 38 inch, Grass.	1.40
English T. Waldron, 40 inch, Grass.	1.45
American Grain Scythes, No. 60.	1.00
English Waldron Grain Scythes, 50 in.	1.75
English Waldron Grain Scythes, 52 in.	1.80
English Waldron Grain Scythes, 54 in.	1.90
American No. 23, Grass.	80c.
Bucks polished, polished web.	
American No. 52, Weed, Beaded.	75c.
No. 50—Best Bush or Briar Scythe, Beaded, American Pointed	75c.

## SCYTHE SNATHS.

No. 80—Ring Fastening Socket, iron trimmed.	
Retail price... 65c.	List price... \$ 9.50
No. 55—Patent Loop, solid plate, iron trimmed.	
Retail price... 75c.	List price... 11.50
No. 100—Two Rings, Bush Snath.	
Retail price... 85c.	List price... 12.50
No. 105—Patent Bush Snath.	
Retail price... \$1.00	List price... 13.50

## BUSH AND BRIAR HOOKS.

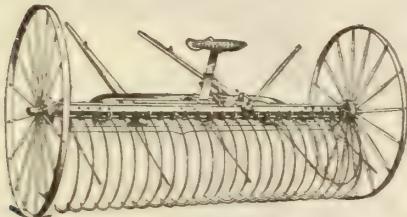
No. 380—Axe handle bush hook.	.75c.
No. 390—Two-ring bush hook.	.75c.
No. 393—Socket briar, with knife on back.	\$1.25

## Corn, Potato and Manure Hooks and Corn Knives.

No. F 32—Flat oval four-tine solid steel potato hooks.	Retail price... 50c. each.
No. F 35—Extra heavy four angular tine Jumbo potato hooks.	Retail price... 60c. each.
No. 132 or 1132—Patent locked heavy potato hooks.	Retail price... 60c. each.
CORN HOOKS (Retail Prices)—Regular pattern, not adjustable	20c. each.

CORN KNIVES—Clipper, 25c. each; Eureka, 50c. each; 15-inch solid steel, forged, 30c. each; 18-inch solid steel, forged, 40c. each.	
GARDEN SETS—3 pieces, 5-T rake, shovel and hoe, \$1.00 per set.	

## Walter A. Wood Self-Dump Hay Rakes



### Genuine Thomas Tedder.

On this Tedder is used a continuous heavy steel axle. Wheels have lugs to prevent slipping, and tires are bolted on. Lever for throwing in and out of gear is in the center of tedder, and operator can work it from his seat. A regular pitchfork style of kicker is used. Fork spring is of steel.

This machine is built in a most substantial manner and of the very finest and strongest material, and will properly handle the heaviest hay. All the kickers are between the wheels. Price, \$34.00.

It is in every sense of the word a self-dump rake. You merely touch the trip with your foot. The dumping is automatic.

The self-dump rake also has a hand-dump attachment.

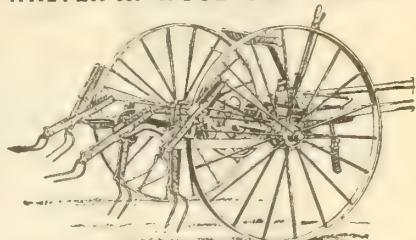
Naturally, in a rake the important parts are the rakers—the teeth. The Wood teeth are made on a special pattern designed to produce best results. They do not harrow the ground, but they rake all the hay. They do not allow it to roll over and over and finally tangle in the wheels, but they rake it and carry it until you touch the trip. All Walter A. Wood rakes can be used for one or two horses, the shafts sliding together and forming a pole.

#### Price of Self-Dump Rakes, All-Steel.

8 ft., with 20 teeth, \$21.00; 8 ft., with 24 teeth, \$22.00; 9 ft., with 27 teeth, \$23.00.

**Special Prices for Cash.**

### WALTER A. WOOD HAY TEDDER.



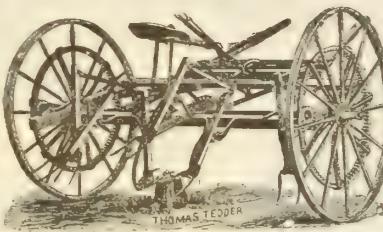
The Wood Tedder is built of steel throughout, is perfectly balanced and very light in draft. It is exceptionally strong. The strong forks are readily adjusted at different heights from the ground by the use of one lever, with a unique device for passing obstructions. Each fork has four distinct motions calculated to best separate and toss the hay.

**Prices of Hay Tedders.**  
Six-fork, \$34.00. Eight-fork, \$38.00.  
**Special Prices for Cash.**

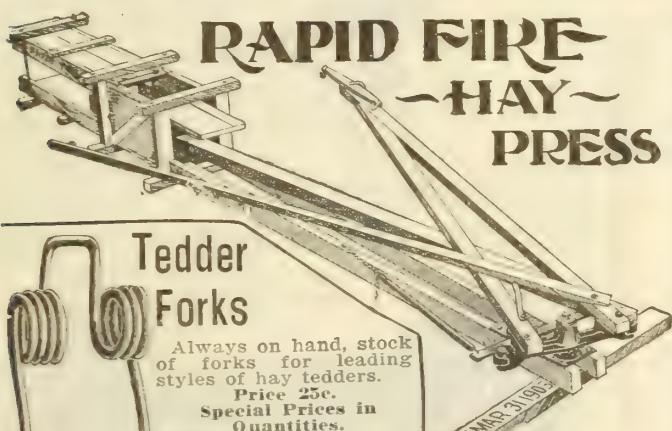
### THOMAS' CELEBRATED RAKE.

This Rake has long been known in the agricultural world as one of the best rakes made. It rarely requires any repairs; will rake cornstalks as well as the heaviest hay; has a long and good spring over each tooth; an overhanging cleaner with roller turns the hay in dumping and brings green hay on top.

**Price \$20.00. Special price for cash.**  
**THOMAS' RELIABLE STEEL RAKE.**  
8 ft., 20 teeth, \$21. 9 ft., 23 teeth, \$22.



### RAPID FIRE -HAY- PRESS



### Tedder Forks

Always on hand, stock of forks for leading styles of hay tedders.

Price 25c.

**Special Prices in Quantities.**

When ordering tedder forks always state name of tedder, year it was made if possible, and whether fork is in one or two pieces.

**ONE-HORSE FULL CIRCLE.**  
**TWO STROKES, LIGHT DRAFT, STRONG, SIMPLE, DURABLE.**

Direct power is applied from driving arms to pitman straight against the hay without any cogs, chains, knuckles, hinges, ratchets or other nuisances.

A 4-inch axle tapered just enough to make the lightest draft is a feature of the Rapid Fire that is better than any other on the market, no matter how much you pay. The rebound does not go against the sweep and push it on the horse.

The driving arms are only 16 inches long, and are **heavy, strong and durable**, and made on a principle to prevent friction, wear and breakage, and applied so as to **increase the leverage** as the hay is more compact, and thus reduce the strain on the horse to a minimum. Capacity is not governed alone by packing capacity, but also by the amount of hay that can be put in.

**Price \$75.00. Special Price for Cash.**

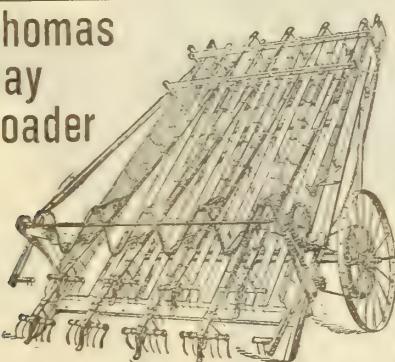
### RAKE TEETH

**FOR ALL LEADING RAKES.**

In ordering, either send old tooth or exact drawing and avoid errors.

**PRICE, 25c.**

### Thomas Hay Loader

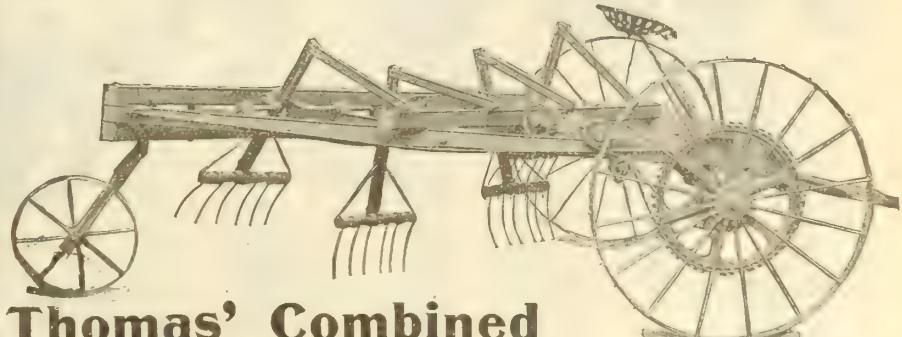


Cut shows general appearance. Well braced front and rear. Direct gearing from drive wheel to crank. Rakes 6 or 8 feet wide, light draft. Takes hay direct from swath. Will rake and load from light windrows, but is not a windrow loader. Fork protectors to prevent digging into the ground. Specially constructed crank support to hold crank loose. Driver can unhitch loader from wagon without getting off the wagon. We invite inspection. Price \$60.00.

### Thomas' Combined Side-Delivery Rake and Tedder.

Gathers hay on from seven to eight feet of the ground and delivers it at one side of the machine in a continuous windrow. A flat steel spring allows fork to bend back going over obstructions. Forks can be raised or lowered to adapt machine to light or heavy hay. Forks and teeth adjustable. No dumping required. Anyone that can drive horses can operate it same as a Tedder. The Rake can be changed to a Tedder in a few minutes by taking off fork arms and turning them over and fasten back again; also, by adding a few links to driving chain. We invite inspection.

**PRICE, \$55.00.**



## "DIAMOND" Wide Mouth Swivel and Reversible Carrier with Independent Single Trucks.

The trucks are built from one solid piece of best malleable iron and cannot spread on the track with a heavy load. The track wheels run on turned steel axles and the rope wheels have chilled hubs and run on bushings that fit in recesses of the frame, thereby taking all wear and strain off the bolt. The lock is positive and is forced into action by the pulley block coming in contact with the gripping dogs, which will hold the pulley perfectly until again released by the stop. The wide mouth will receive the fork pulley when approaching from any direction, and swings with the load when locked. Made for both wood and steel track.

Steel Track Car... \$4.25  
Wood Track Car... 4.25  
Steel Track per ft., 12½c.  
Special discount for cash.



Fig. 436.



Fig. 376.



Fig. 796. Fig. 433.

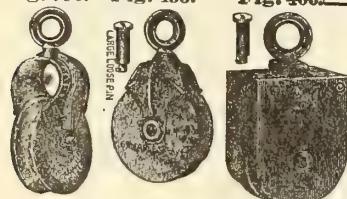


Fig. 466.

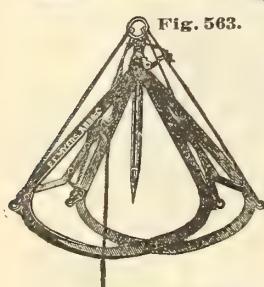


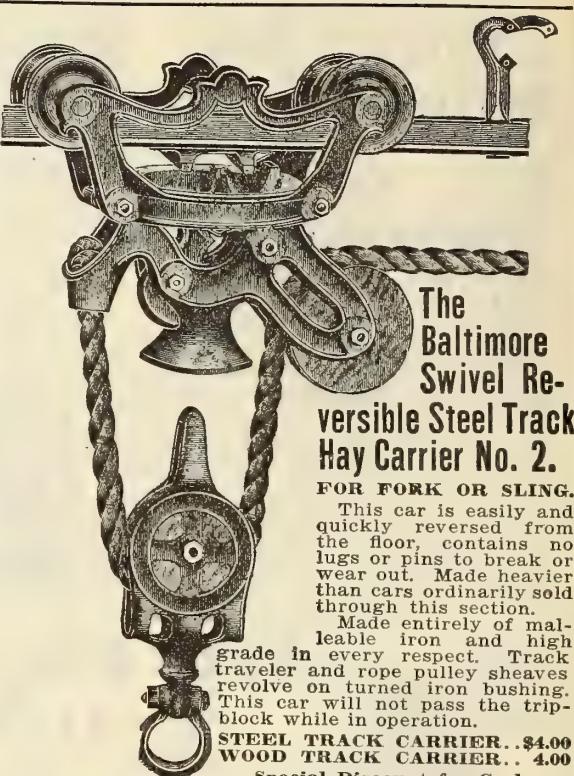
Fig. 563.



Fig. 620.

PRICES.	
Fig. 268—Harris Double Harpoon Fork.	\$1.00
Fig. 773—Genuine Nellis Harpoon Fork.	2.00
Fig. 436—Rafter Bracket, steel.	.06
Fig. 436—Rafter Bracket, malleable	.06
Fig. 376—Swivel Rope Hitch.	.20
Fig. 620—Center Trip Sling, with 4-foot sling stick.	2.00
Fig. 1052—Universal Sling Pulley.	2.00

This Sling attachment is made for use with any make of hay carrier.	
Hanging Hook for Wood Track.	.08
Hanging Hook for Steel Track.	.08
Floor Hook.	.08
Fig. 796—Knot-Passing Pulley.	.30
Fig. 834—Wood Frame Pulley, with Hook.	.30
Fig. 466—Wood Frame Pulley, with Eye.	.30
Fig. 692—All-Iron Pulley; has 5-inch sheave, swivel eye.	.20
Fig. 438—Maple Sheave Pulley; 6-inch sheave.	.20
Fig. 563—Four-tine Grapple Fork.	4.50
Extra Trips or Stops for Cars, each.	.40
Steel Track, per foot.	12½c.
Rafter Nails, pound.	.06
Roofing Nails, pound.	.06



## The Baltimore Swivel Reversible Steel Track Hay Carrier No. 2.

### FOR FORK OR SLING.

This car is easily and quickly reversed from the floor, contains no lugs or pins to break or wear out. Made heavier than cars ordinarily sold through this section.

Made entirely of malleable iron and high grade in every respect. Track traveler and rope pulley sheaves revolve on turned iron bushing. This car will not pass the trip-block while in operation.

**STEEL TRACK CARRIER.. \$4.00  
WOOD TRACK CARRIER.. 4.00**

Special Discount for Cash.

**STEEL TRACK, PER FOOT .....** 12½c.

## Myers' Clover Leaf Unloader

### FOR DOUBLE STEEL TRACKS.

Swivel and Reversible.

Fig. 1031.

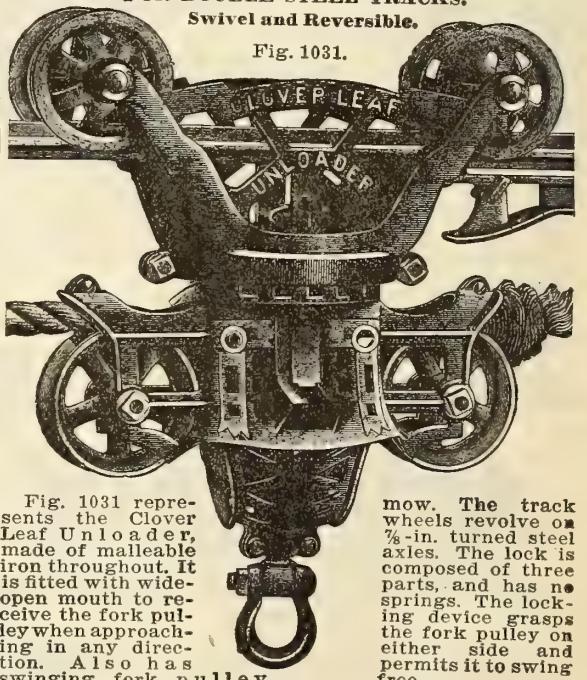


Fig. 1031 represents the Clover Leaf Unloader, made of malleable iron throughout. It is fitted with wide-open mouth to receive the fork pulley when approaching in any direction. Also has swinging fork pulley, which relieves the carrier from all strain when drawing hay over a high beam or into a well-filled

mow. The track wheels revolve on  $\frac{7}{8}$ -in. turned steel axles. The lock is composed of three parts, and has no springs. The locking device grasps the fork pulley on either side and permits it to swing free.

Price .....

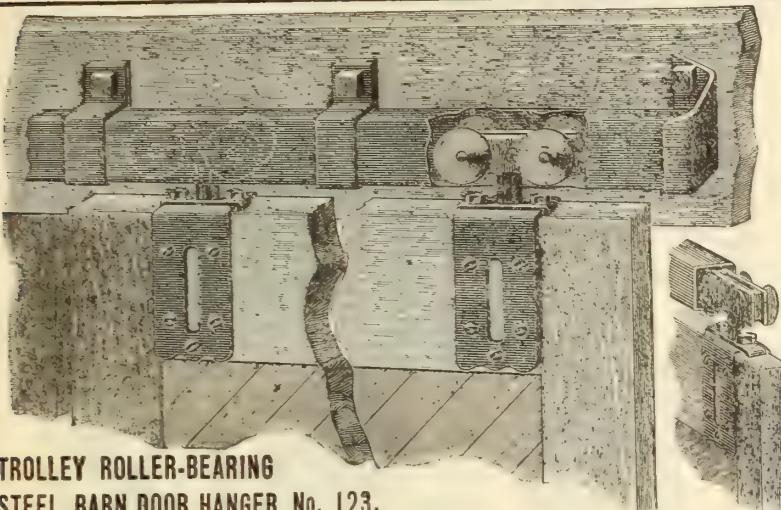
\$4.25

Steel Track, per lb, 12½c.

Special Discount for Cash.

## Myers' Wood Track Carrier.

Price \$4.25. Discount for Cash.



### TROLLEY ROLLER-BEARING

#### STEEL BARN DOOR HANGER No. 123.

Weight, per pair, 10 lbs. Pendant 6 in. long, 3½ in. wide, 3-16 in. thick. These Hangers have lateral adjustment, and are suitable for doors from 1½ to 2¼ in. thick. Hangers and track are sold separately. A pair of Hangers consists of two hangers and carriers, one right-end bracket, No. 51, one left-end bracket, No. 50, and one center bracket, No. 52, complete with wood screws for hangers and lag screws for brackets. When ordering always give thickness of doors, the exact width of opening and state whether for double or single doors. List price, per pair, \$3.00. Retail price, \$1.50.

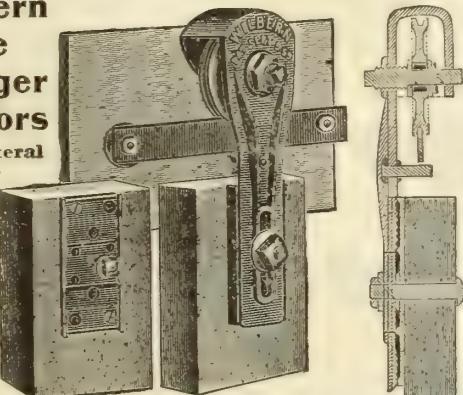
**TROLLEY HANGER No. 124.** Same as No. 123 above; same adjustment. Suitable for doors 2½ to 3 inches thick. Weight, per pair, 12 lbs. List price, per pair, \$4.00. Retail price, per pair, \$1.75. Track, No. 16 gauge, list price, per foot, 25c.; retail price, per foot, 12c. No. 52 Trolley Hanger Brackets, each, retail price, 12c.; list price, 20c. Price of Trolley Hangers includes one left-end bracket No. 50, one right end bracket No. 51, and one center bracket No. 52.

**TROLLEY HANGER No. 224.** Weight, per pair, 12 lbs. Pendant 9 in. long, 3½ in. wide, 3-16 in. thick. Suitable for doors from 2 to 3 inches thick, weighing from 400 to 600 lbs. Adjustment lateral and vertical; Track No. 16 Gauge, No. 131 Type.

List price, per pair, \$4.50. Retail price, per pair, \$2.00. Same equipment included in price as other Trolley Hangers.

### No. 0 Wilbern Adjustable Door Hanger for Barn Doors

Vertical and Lateral  
Adjustment.



This hanger is designed especially for barn doors and for light factory doors. In the vertical adjustment a half-inch bolt passing entirely through the door is used instead of a cap screw. The plate is fastened to the door with flat head screws. Will run on any stock track from 1 inch to 1¼ inch wide without jumping. Weight, per dozen pairs, 80 pounds.

**ITS MERITS.**—It has lateral adjustment, which is secured by a threaded axle. This permits a door to be moved in or out, so that it can be hung close to the wall, or chafing on the wall can be easily corrected. It has vertical adjustment, which is secured by a plate and a ratchet. This permits a door to be moved up or down, so that it can be hung close to the floor, or scraping on the floor can be easily corrected. Double doors can be fitted snugly together. It can't jump the track, being tied on by an adjustable stop, which passes under the rail. Price per pair, \$1.00.

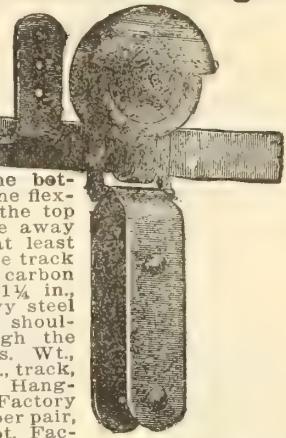
### Track for Anti-Friction Barn Door Hanger No. 2.

This track is made of special carbon open-hearth steel 1 x 3-16 stock, and has heavy brackets well and substantially riveted to it at every 12 inches. The ends are made with tongue and groove to match. The track is made in 4, 6, 8 and 10 foot lengths. Price per foot, 4c.

### Flexible Hinge Barn Door Hanger

Constructed with a lug extending upward around the bottom of the track, which locks it securely and prevents throwing off under any circumstances.

The door can be swung out from the bottom at any angle. The flexible feature allows the top of the door to move away from the building at least one-half an inch. The track is heavy special high carbon flexible steel, 3-16 x 1¼ in., supported by a heavy steel bracket with square shoulder mortised through the track every 17 inches. Wt. doz. pairs, 70 lbs. Wt. track, per 100 ft., 105 lbs. Hangers, per doz. pairs, Factory List \$16.00. Retail, per pair, 75c. Track, per foot, Factory List 11c. Retail 6c.



### No. 243 Flexible Roller-Bearing Stay ON BARN DOOR HANGER.

Runs only on 1¼ x 3-16 special track. Two wheels to each hanger. Weight of door is distributed at all points on track. A grooved pulley engages lower edge of track, and it is impossible for hanger to get off. Weight, doz. pairs, 105 lbs.; weight per 100 ft. No. 207 track, 105 lbs. List price hangers, per doz. pairs, \$16.00; Retail price hangers, per pair, 80c. List price track, per foot, 11c.; Retail price track, per foot, 6c.

### No. 124½ Roller Barn and Fire Door Hanger.

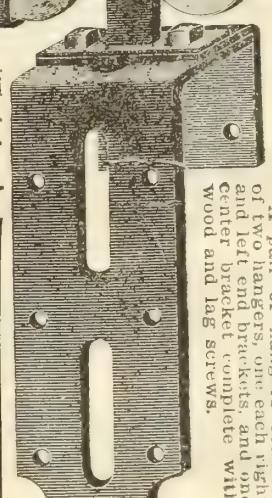


The only Adjustable Double Apron made. Suitable for doors weighing 400 to 600 lbs. Adjustment lateral only. No. 1—For doors 1¾ to 2¼ in. thick; wt. 12 lbs. No. 2—For doors 2½ to 3 in. thick; wt. 12 lbs.

List price, per pair, \$4.50.

Retail price, per pair, 2.00.

The ½ in. number 124½ signifies the return or double apron.



### Anti-Friction Barn Door Hanger No. 2. PRICE, PER PAIR, 50c.



Has roller bearings, which cause the wheel to roll easily and prevent wear.

Frame of open-hearth-steel, strength sufficient for heaviest doors; standard tread; can be used on other tracks.



For use on Barn Door Hangers. Price, each, 15c.

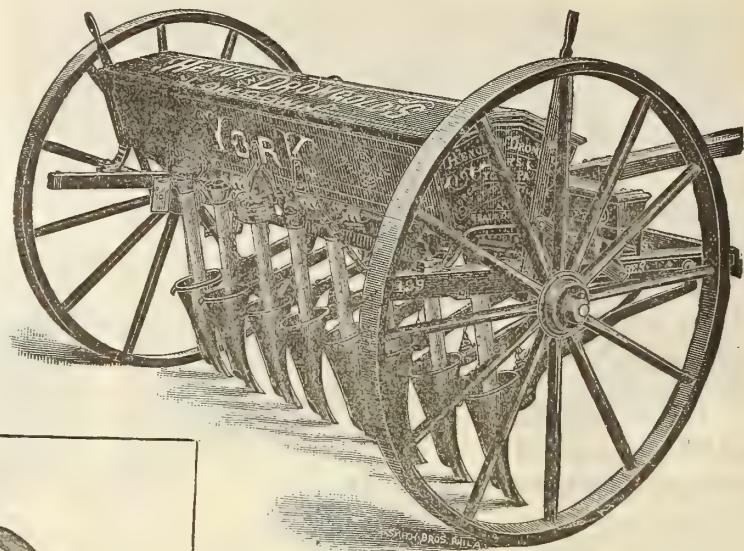
A pair of hangers consists of two hangers, one each right and left end brackets, and one center bracket complete with wood and lag screws.

## The York Grain and Fertilizer Drill.

BOTH the grain and fertilizer are positive force feeds, and will sow with absolute regularity any kind of grain or fertilizer in good condition. The grass seeder is also a force feed, and can be used either in front or rear of the hoes; also quantity can be changed to any amount necessary. It is fastened on the frame and very low down, thus preventing the wind from blowing the seed away before reaching the ground. The fertilizer feed can be stopped or started at any time while the drill is in motion, which makes it convenient in case the operator does not wish to sow fertilizer while going over good ground.

8-Hoe Pin.....	<b>\$65.00</b>	10-Hoe Spring.....	<b>\$76.00</b>
9-Hoe Pin.....	<b>68.00</b>	11-Hoe Spring.....	<b>79.00</b>
10-Hoe Pin.....	<b>71.00</b>	8-Disc Drill.....	<b>70.00</b>
11-Hoe Pin.....	<b>74.00</b>	9-Disc Drill.....	<b>73.00</b>
8-Hoe Spring.....	<b>70.00</b>	10-Disc Drill.....	<b>76.00</b>
9-Hoe Spring.....	<b>73.00</b>	11-Disc Drill.....	<b>79.00</b>

### SPECIAL PRICES FOR CASH.



## The Thomas Disc Fertilizer Drill.

THE Celebrated "Marks" Fertilizer Feed is used on this Drill. The device for changing quantity is entirely new and has been thoroughly tested, and consists of a simple speed gear direct and adjustable mounted on the axle. The flow is stopped automatically when the discs are raised. When spotting shocks in sowing corn ground, can be thrown out of gear without raising the discs.

**DISC BOOT.**—Our Delivery Disc Boot is specially designed and very complete, and prevents choking or clogging in any soil. There is a chilled iron spindle, which will last for years, if it will ever wear out. The scrapers for discs are of spring steel, and are adjustable.

8-Disc Drill.....	<b>\$75.00</b>	10-Disc Drill.....	<b>\$85.00</b>
9-Disc Drill.....	<b>80.00</b>	11-Disc Drill.....	<b>90.00</b>

### SPECIAL PRICES FOR CASH.

8-Hoe Pin.....	<b>\$65.00</b>	8-Hoe Spring.....	<b>\$70.00</b>
9-Hoe Pin.....	<b>70.00</b>	9-Hoe Spring.....	<b>75.00</b>
10-Hoe Pin.....	<b>75.00</b>	10-Hoe Spring.....	<b>80.00</b>
11-Hoe Pin.....	<b>80.00</b>	11-Hoe Spring.....	<b>85.00</b>
12-Hoe Pin.....	<b>85.00</b>	12-Hoe Spring.....	<b>90.00</b>

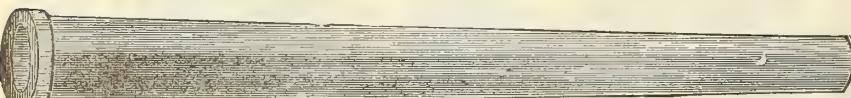
### SPECIAL PRICES FOR CASH.

## GRAIN DRILL TUBES.

Plain Top.



Ring Flange.



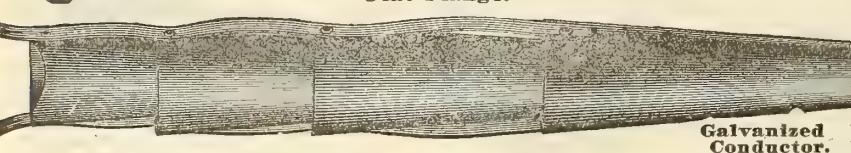
Bell Top.



Flat Flange.



Galvanized Conductor.



## GRAIN DRILL POINTS

We are One of the Largest Distributors of **GRAIN DRILL POINTS AND TUBES** in the Country.

For all leading Grain Drills, including York Superior, Pennsylvania, Bickford & Hoffman, Buckeye, Hoosier, Indiana, Champion, Empire, McSherry, Hagerstown, Greencastle, etc.

**IN ORDERING POINTS,** either send an old one or give name of Drill, length of point, and be sure to give distance from center of hole to end of point. It is always best, if possible, to send an old sample. If our customers will carefully comply with the foregoing directions it will be a mutual saving of an immense amount of time.

Price, Points, each..... **10c.**

**IN ORDERING TUBES** it is always best to send an old Tube as a sample. If that cannot be done, be sure to state name of Drill, the kind of Tube, whether ring flange or plain top, or special bell-shaped top with straps, and by all means the length and diameter at top and bottom.

Plain Tubes, each.....	<b>25c.</b>
Bell Top Tubes, each.....	<b>30c.</b>
Flat or Ring Flange Tubes, each.....	<b>30c.</b>
Galvanized Conductors, each.....	<b>40c.</b>

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

## OILERS.

We Carry in Stock a Full Line of Oil Cans for All Kinds of Farm Machinery; Also, Harvester Oils.

### CHASE ZINC OILERS.

#### PRICES.

No.	List-Doz.	Retail.
00	\$1.00	10c. each.
0	1.25	10c. "
1	1.50	10c. "
2	2.00	15c. "
3	2.25	15c. "
4	2.75	20c. "
5	3.50	25c. "
6	4.50	30c. "

#### ROUND.

No. 698 — Bent or Straight Stem. Round, 10c.

#### oval.

No. 699 — Bent or Straight Stem. Oval, 10c.

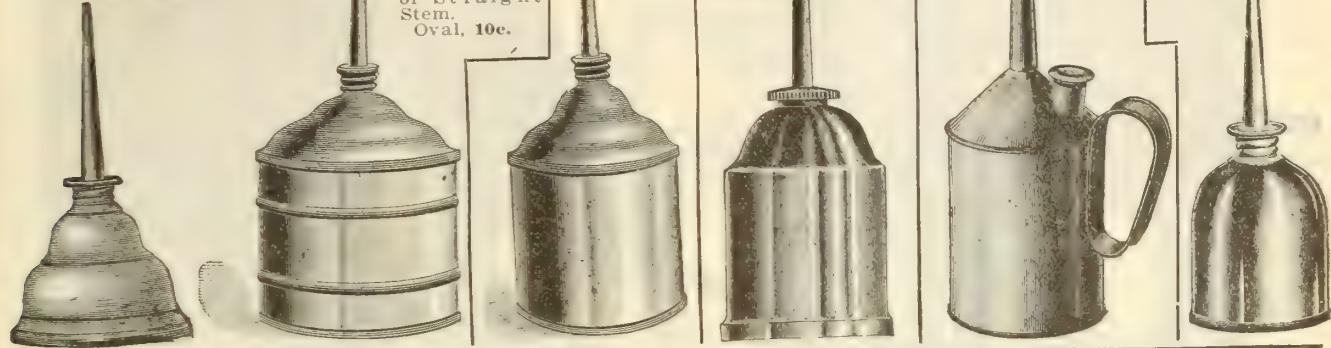
#### LITHO OILERS.

Handsome Lithographed. Price, 10c.

No. 601. Copperized Steel Mowing Machine. Bent or Straight Stem. 20c.

ENGINEERS'  
OILERS.  
1 pint, 30c.  
1 quart, 40c.

No. 701  
Copper-plated Steel Mowing Machine Oilers. 15c. each.

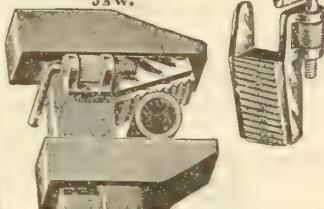


THE "ELGIN" ADJUSTABLE WRENCH.



WILL HOLD PIPE OR NUTS.

MONKEY WRENCH PIPE JAW.



#### RE-THREADING ATTACHMENT WITH INTER-CHANGEABLE DIES.

It Can Be Attached to All of the Elgin Wrenches of 1905 Pattern.

Price of attachment with one die retail price, 75c. each. Extra dies, retail price, 40c. each.

It is a Racheting Attachment and will re-thread damaged bolts in corners and angles without removing the bolt from its position to a vise. Extra dies can be had in 1-4, 5-16, 3-8, 7-16 and 1-2 in.

#### MONKEY WRENCH PIPE JAW.

When there is only a little work to do (not enough to warrant buying a pipe wrench) "The Elgin" Jaw on a monkey wrench will do it. Price, each, 30c. Will fit any ordinary 10 or 12-inch monkey wrench.

#### THE "ELGIN" ADJUSTABLE WRENCH.

Both Jaws Hardened. Length 7 Inches. Wrench is All Steel. Weight 10 Ounces.

It will fit a pipe up to  $\frac{3}{4}$  inch or a nut that is  $1\frac{1}{2}$  inches across. Adjusted to fit the articles; you get all the leverage and no ends to interfere. Price, 75c. each. Extra Jaws, 25c.; they make an old wrench as good as when you bought it.

#### W. & B. MACHINISTS' KNIFE HANDLE WRENCHES.

This wrench has the head and bar drop-forged in one piece from selected steel. The jaws are case-hardened and the entire wrench is ground, polished and highly finished.

Retail 6 in. 8 in. 10 in. 12 in. 15 in. 18 in. 21 in. price, each \$0.50 \$0.55 \$0.65 \$0.75 \$1.50 \$1.75 \$2.00 List pr. doz. 9.00 10.00 12.00 14.00 24.00 30.00 36.00

#### WROUGHT SCREW AGRICULTURAL WRENCHES.

6 in. 8 in. 10 in. 12 in. 15 in. Retail price, each \$0.25 \$0.35 \$0.40 \$0.50 \$0.75 List price, per doz. 10.00 12.00 14.00 17.00 24.00

#### COMBINATION WRENCH.

	Doz.	Each.
10—Wire or pipe from $\frac{1}{4}$ to 1 inch outside diameter.....	\$25.25	\$1.75
12—Wire or pipe from $\frac{1}{2}$ to $1\frac{1}{4}$ inch outside diameter.....	28.50	2.00
15—Wire or pipe from $\frac{1}{2}$ to $2\frac{1}{4}$ inch, outside diameter.....	40.50	2.75
18—Wire or pipe from $\frac{1}{2}$ to 3 inch outside diameter.....	72.00	5.00

This Wrench combines all desirable features of both pipe and nut wrenches. Head and bar forged as a unit. It is adapted to a wide range of work.

#### ACME STEEL WRENCHES.

Inches	6	8	10	12	15
Retail price, each....	\$0.50	\$0.65	\$0.75	\$0.90	\$1.25

List price, per doz. 10.00 12.00 14.00 17.00 24.00

#### "BULL-DOG" WRENCHES.

No. 0—Pocket size, 4 in. long. List price, per doz. \$3.00. Retail price, 15c. each.

No. 1— $5\frac{1}{2}$  in. long. List price, per dozen, \$4.00. Retail price, 20c. each.

No. 1 $\frac{1}{2}$ — $5\frac{1}{4}$  in. long. List price, per dozen, \$5.00. Retail price, 25c. each.

No. 2—9 in. long. List price, per dozen, \$12.00. Retail price, 60c. each.

#### W & B" MACHINISTS' SCREW WRENCH. "W & B" REGULAR WRENCH.

Knife Handle.



#### "W & B" COMBINATION WRENCH.

Made of Crucible Steel—Bright Finish.



#### "ALWAYS READY" WRENCH.



PUNCH.



COLD CHISEL.

#### "ALWAYS READY" WRENCHES Special Steel, Forged, Tempered in Oil.

No. 1—5 in. long. List price, per doz. \$4.60. Retail price, 30c. each.

No. 2—7 in. long. List price, per doz. \$6.75. Retail price, 40c. each.

TWIN WRENCHES.

Twin, 10 in. long. List price, per doz. \$18.00. Retail price, 75c. each.



#### IMPROVED "ACME" STEEL WRENCH.



"BULL-DOG" WRENCHES.



TWIN WRENCHES.



SPRING COTTERS.

Prices on application.



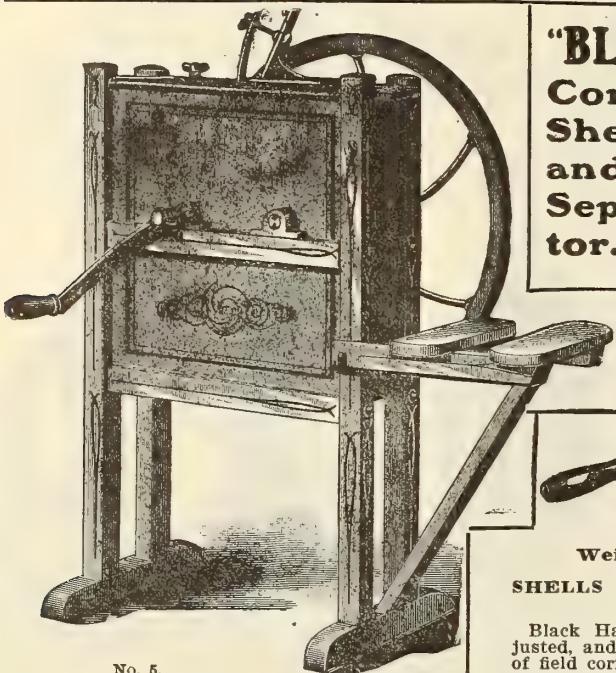
PUNCH.

$\frac{1}{2}$  in.  $\frac{5}{8}$  in.  
Retail price, each.... \$0.10 \$0.15  
List price, per doz.... 3.00 4.50

#### COLD CHISEL.

$\frac{1}{2}$  in.  $\frac{5}{8}$  in.  
List price, per doz.... \$4.00 \$5.00  
Retail price, each.... .45 .20

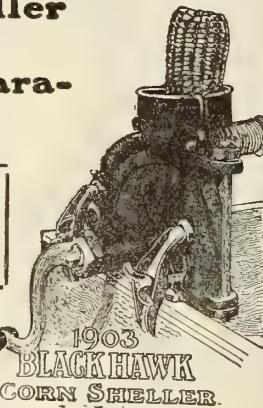
## THE BALTIMORE SHELLERS.



No. 5.

**"BLACK HAWK"**

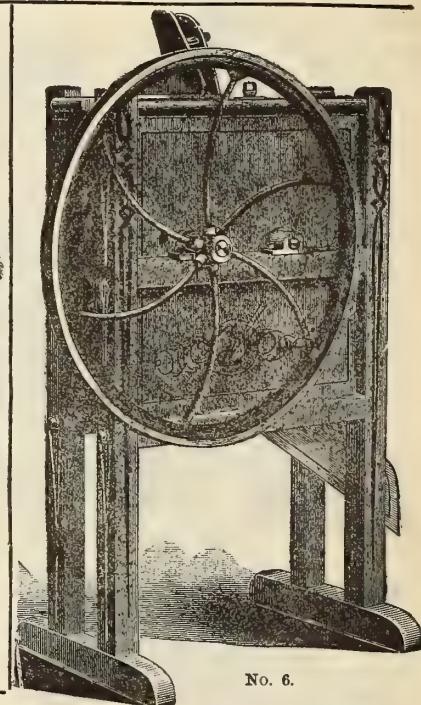
**Corn  
Sheller  
and  
Separa-  
tor.**



**Weight, 14 Pounds.**

**SHELLS FAST, CLEAN, AND  
EASILY.**

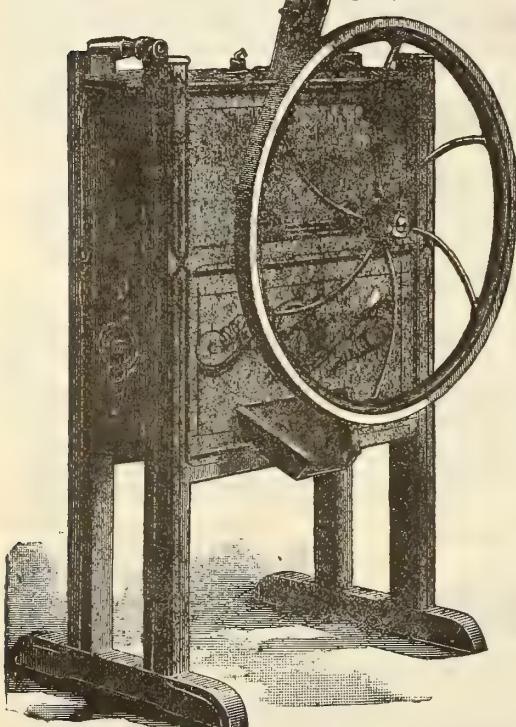
Black Hawk is simple, easily ad-  
justed, and will shell clean all kinds  
of field corn. Price, \$2.00.



No. 6.

Capacity, 125 bushels per day; single spout; left hand. Corn and cobs separated.

Without basket holder.....\$6.00  
Basket holder extra..... .60  
**Special Discount for Cash.**

**No. 4 SINGLE SPOUT.**

Screens corn; side delivery; light-running; strong steel shafts. Capacity, 125 bushels a day.

Plain..... \$6.50

**Special Discount for Cash.**

**"Easy" Corn Shellers.**

**SIMPLE, CHEAP.  
STRONG,  
CONVENIENT.**

**Weight, 15 Pounds**

Price, \$1.25.

**Red Chief  
Corn Sheller.**

A first-class Sheller. Handy, convenient—can be fastened to box or tub.

Price.....\$1.75

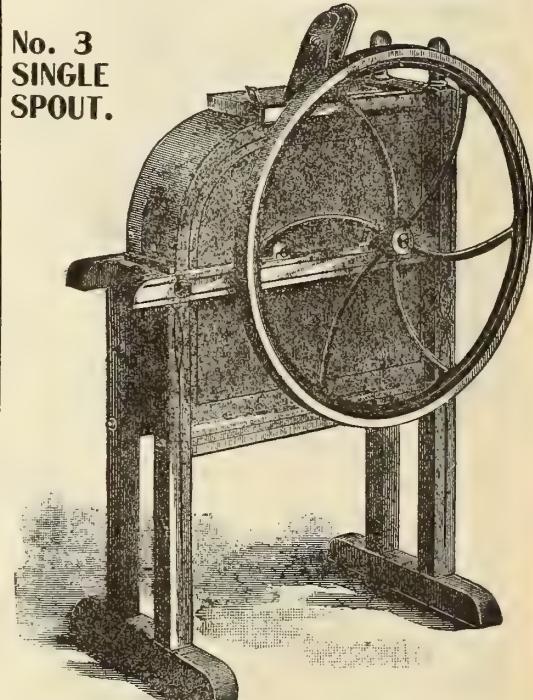
**Pony Corn Sheller.**

Does perfect work.  
Price..... \$1.50

Runs shelled corn and cobs together. Capacity, 125 bush-  
els per day.

Price, Plain Sheller..... \$5.50

**Special Discount for Cash.**

**No. 3  
SINGLE  
SPOUT.**

Separates corn and cob. Fan will clean corn for market. Corn discharged beneath Sheller, cobs at end. Easily ad-  
justed for large or small ears. Capacity, 125 bushels a day.

Plain..... \$6.50

With fan..... 7.00

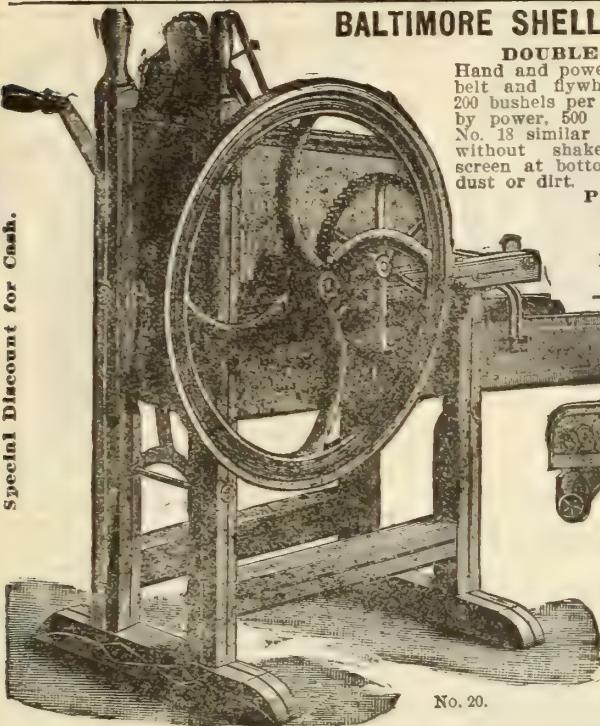
**Special Discount for Cash.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

## BALTIMORE SHELLER No. 20

**DOUBLE SPOUT.**  
Hand and power, with shaker belt and flywheel. Capacity, 200 bushels per day. Capacity by power, 500 to 600 bushels. No. 18 similar to No. 20, but without shaker and with screen at bottom to take out dust or dirt.

**PRICE—**  
No. 20, with shaker, \$14.00.  
No. 18, \$12.50.



No. 20.

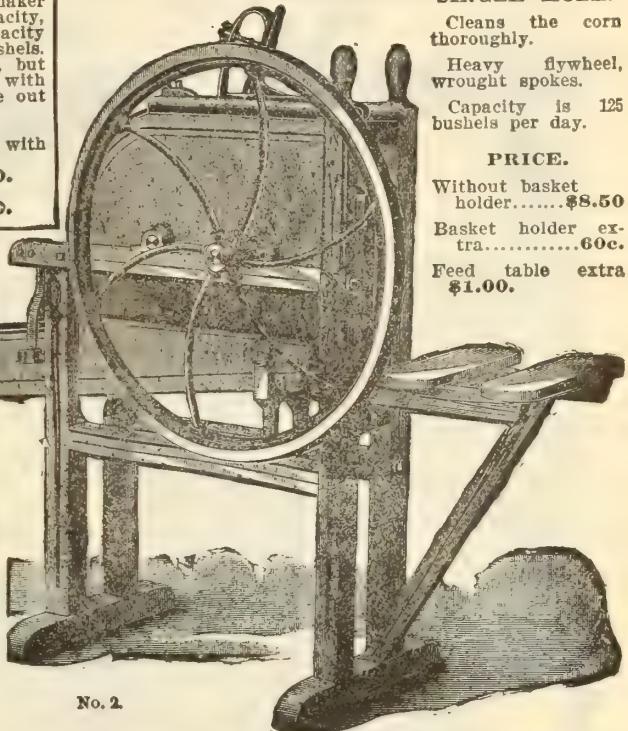
## BALTIMORE SHELLER No. 2.

**SINGLE HOLE.**  
Cleans the corn thoroughly.

Heavy flywheel, wrought spokes.  
Capacity is 125 bushels per day.

### PRICE.

Without basket holder.....	\$8.50
Basket holder extra.....	60c.
Feed table extra	
	\$1.00.

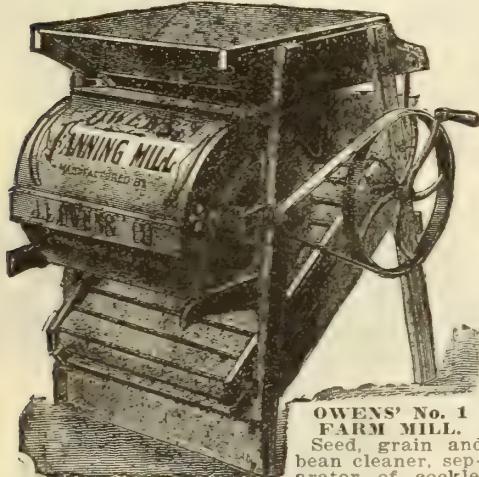


No. 2.

## Owens' Wheat Cleaner and Cockle Separator.

The Owens takes out more Cockle and Foul Seeds than any other Fan made. Increases Price of Grain 10 to 20 Per Cent.

**NO MORE COCKLE.**



**OWENS' NO. 1 FARM MILL.**  
Seed, grain and bean cleaner, separator of cockle, buckwheat and mustard. Capacity 40 to 50 bushels per hour. Price, \$20.00. **Special Price for Cash.**

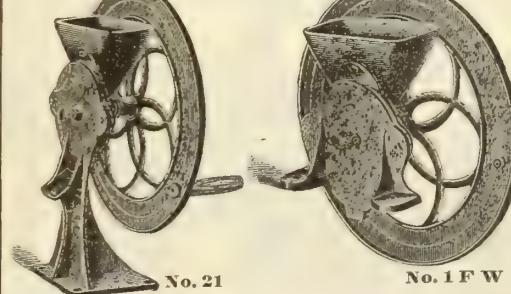
### OWENS' NO. 5 FARM MILL.

Capacity, 60 to 80 bushels per hour. Especially recommended for cleaning large crops of wheat or other grain. Price, \$18.00. **Special Price for Cash.**

### OWENS' NO. 20 SIDE SHAKE FARM MILL.

Has side shake; cannot be excelled for cleaning seed wheat, and is used especially for warehouse purposes. It has the slatted canvas. Capacity, 80 to 100 bushels per hour. Price, \$26.00. **Special Price for Cash.**

**THE WESTERN GENERAL-PURPOSE GRAIN-PAN.**—Separates wheat, oats, rye, clover and timothy. This machine is a perfect separator of wild oats from wheat, barley and large tame oats. It also separates barley from wheat and rye from wheat; also separates cheat and cockle from wheat. Price, \$15.00.



No. 21

No. 1 F W

## Old Dominion Grinding Mills

Capacity from 1 to 2 bushels per hour, accordingly as the mill may be set for fine or coarse grinding. Note flat construction of balance wheel. May be adjusted for grinding meal for table use or only for cracking the grain.

No. 1 F W.....\$3.00  
No. 21.....4.00

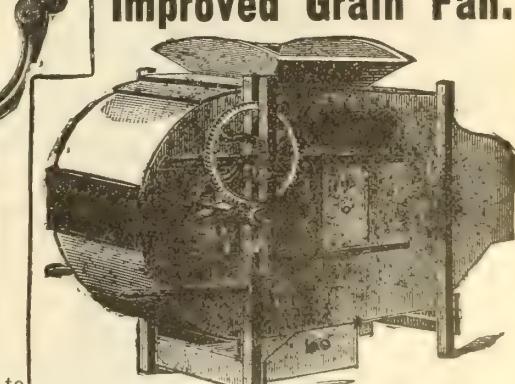
## Old Dominion Hand Corn Sheller.

Style P.



See regulating thumb-screw to set sheller for either large or small ears. Shells clean. Shells Popcorn. Clamps with bolts and wrench with each machine. Chilled shaft and bearings. Wt., crated, 20 lbs. Price, \$2.00.

## The Baltimore Improved Grain Fan.



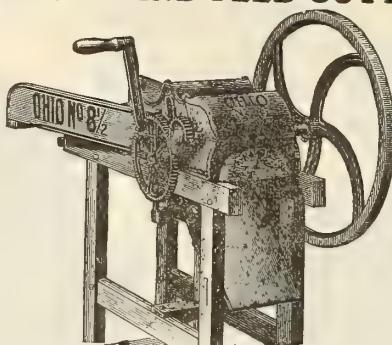
Will clean from 60 to 100 bushels per hour. Made of best material and finished in a neat and tasty manner.

Price, \$20.00.  
**Special Price for Cash.**

**Maryland Lever Cutter.** "OHIO" HAND FEED CUTTER  
Strong, Cheap and Durable.



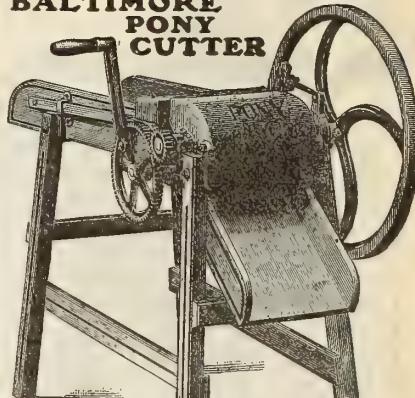
Knife..... 11 inch  
Weight, K. D. .... 55 pounds  
Price..... \$3.50



Length  
of Knives,  
Inches.      Number of  
Knives.      Length  
of Cut,  
Inches.  
No.      8½      8½      1¼, ¾, ¾,  
10½      10½      2      1¼, ¾, ¾,  
Less 30 per cent. retail.

Price.  
\$20.00  
25.00

**BALTIMORE PONY CUTTER**



Adapted to cutting hay, straw and corn fodder, and is suitable for persons keeping from one to four or five animals.

Weight, K. D., packed for shipment, 160 pounds.

One knife, 11½ inches long.  
Retail price..... \$10.00  
Special Discount for Cash.

**"Ohio" Standard Feed  
and Ensilage Cutters**

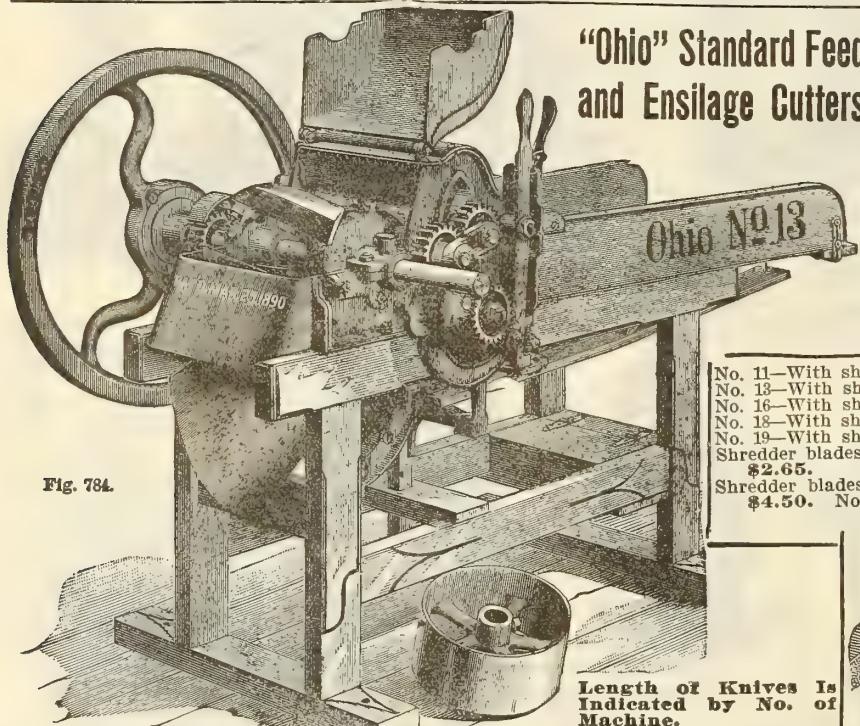
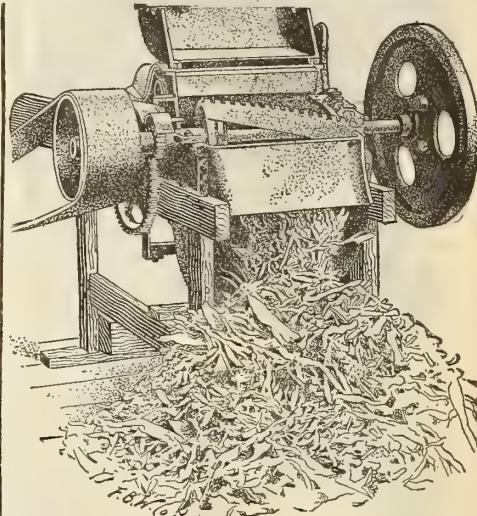


Fig. 784.

Length of Knives Is  
Indicated by No. of  
Machine.

No.				
9	With safety flywheel and pulley; two knives.		\$35.00	
9	With safety flywheel and pulley; four knives.		40.00	
	When furnished with extended knife shaft to place flywheel or pulley on either side, extra.....		2.00	
11	With two knives, 11 inches long, four lengths cut.		40.00	
11	With four knives, 11 inches long, four lengths cut.		45.00	
	Extra gears to cut four inches long.....		3.00	
13	Shredder blades, interchangeable, with knives, each.....		2.65	
13	With two knives, 13 inches long, four lengths cut.		60.00	
13	With four knives, 13 inches long, four lengths cut, weight 560 lbs.		65.00	
	Extra gears to cut four inches long, with two knives.....		4.00	
16	Shredder blades, each.....		3.00	
16	With four knives, 16 inches long, four lengths cut; weight, 620 lbs.		90.00	
	Extra gears to cut four inches long, with two knives.....		4.00	
18	Shredder blades, each.....		3.75	
18	With four knives, 18 inches long, four lengths cut; weight, 700 lbs.		120.00	
	Extra gears to cut four inches long, with two knives.....		4.00	
	Shredder blades, each.....		4.50	

Less 30 Per Cent. Retail.



**POWER AND SPEED REQUIRED TO RUN THE VARIOUS ENSILAGE MACHINES.**

**SPEED CUTTERS ALONE.**

No.	Speed, 300 to 600	No.	Speed, 650 to 700
9-1 H. P.	" 300 to 600	14-10 H. P.	" 650 to 700
11-1 to 2 H. P.	" 300 to 600	17-10 to 12 H. P.	" 650 to 700
13-2 to 4 H. P.	" 450 to 600	19-16 to 20 H. P.	" 600 to 750
16-2 to 4 H. P.	" 450 to 600		
18-4 to 6 H. P.	" 450 to 600		

**BLOWERS AND CUTTERS.**

No.	Revolutions.	No.	Revolutions.
14-10 H. P.	" 650 to 700	17-10 to 12 H. P.	" 650 to 700
17-10 to 12 H. P.	" 650 to 700	19-16 to 20 H. P.	" 600 to 750
19-16 to 20 H. P.	" 600 to 750		

**NO. CARRIERS AND CUTTERS. Revs.**

13-4 to 6 H. P.	Speed, 450 to 600
16-6 to 8 H. P.	" 450 to 600
18-6 to 10 H. P.	" 450 to 600
19-8 to 12 H. P.	" 600

The power here given on Carriers is applicable when cutting green ensilage.

## "Ohio" Self-Feed Ensilage Cutter with Direct Blast Blower Elevator.

The principal points to be observed in a power cutter and blower are capacity, strength, construction and durability. These are all found combined in the Ohio Monarch. The same can be said of the whole line. We present for the first time a new line of Silage Cutters and Blowers, the "Ohio" Monarch, Nos. 14, 17 and 19. The machines are built on lines similar to the No. 18 as made last year, but with improved front hood, the Nos. 14 and 17 being entirely new to meet the demand for medium-sized but strong and powerful machines. The blower is the regular "Ohio" Blower, and the entire machine is heavier and stronger than the well and favorably known "Ohio" Standard machines.

The blower elevator is the same as used so successfully last year. The reduced diameter of the fan case fully demonstrated its superiority, and resulted in the saving of much power, a very important point. As compared with the "Ohio" Standard machines, there is more weight and capacity all through. The frame is heavier and well braced. The knife shaft is steel, 1½ inches in diameter. The knife heads are very much heavier, the cylinder larger in diameter, and there are four strong bolts in each knife in addition to the adjusting set screws at the back. The raise of the feed rolls is greater, thus giving more throat capacity and better feeding qualities. The conveyor beneath the knives carries the cut silage into the fan case. A wire screen covers the outer end of the conveyor case.

The traveling feed table is the full width of the machine and 8 feet long, taking a bundle of corn readily. The gearing is very strong, and is positively guaranteed against breakage when cutting corn.

The new patent-applied-for shredder blade should be run at 600 to 700 revolutions per minute while shredding, and is a notable advance in construction, enabling the operator to shred dry fodder or cornstalks with the blower. There is a great saving in power also as compared with the tooth or saw-blade type of shredder, besides saving the leaves in much better condition. No. 14, capacity 12 to 15 tons per hour, 10-horse steam-power; No. 17, capacity 15 to 20 tons per hour, 10 to 12-horse steam-power; No. 19, capacity 20 to 25 tons per hour, 12 to 14-horse steam-power. Speed, 650 to 700 revolutions per minute. Pulley, 12x8 inches, leather covered.

### SIZES AND PRICES.

No. 14 "Monarch" Cutter, four 14-inch knives, cuts ½, ¾ and 1 inch, and Blower complete with new distributor for top of pipe.....	\$175.00
No. 17 "Monarch" Cutter, four 17-inch knives, cuts ½, ¾ and 1 inch, and Blower complete with new distributor for top of pipe.....	225.00
No. 19 "Monarch" Cutter, four 19-inch knives, cuts ½, ¾ and 1 inch, and Blower complete with new distributor for top of pipe.....	265.00
10-inch galvanized pipe in 4, 6, 8 and 10-foot lengths for No. 14, No. 17 or No. 19 Cutter, per foot.....	.90
Extra gears to cut 4 inches long with two knives. Nos. 14, 17, 19.....	5.50
Shredder blades for No. 14, \$3.50; No. 17, \$4.25; No. 19, \$4.85 each.	
Less 30 Per Cent. Retail.	

Fig. 802.

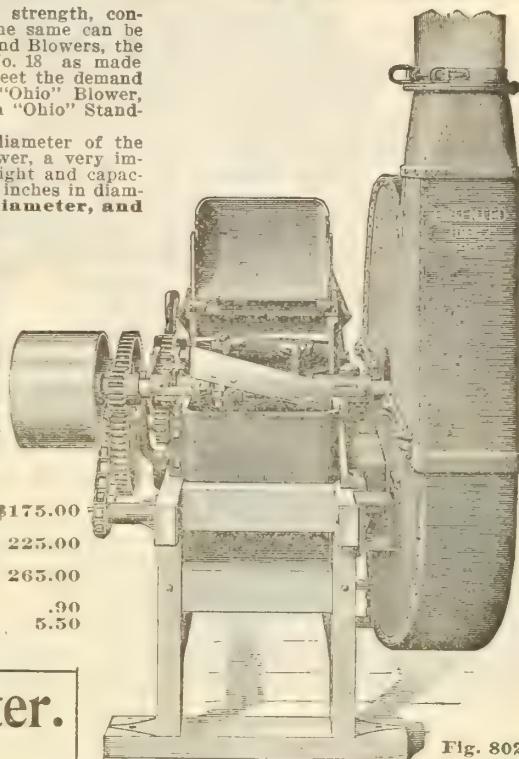


Fig. 802.

## "Ohio" Self-Feed Ensilage Cutter.

SHOWING NEW METAL BUCKET  
SWIVEL CARRIER.

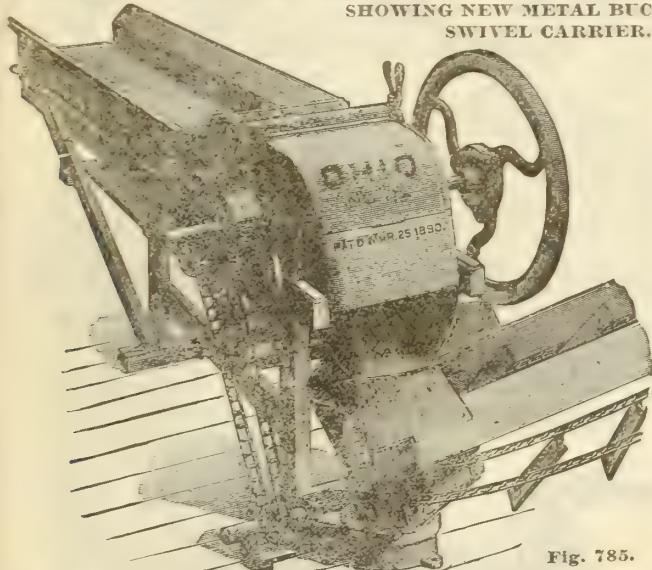


Fig. 785.

### SIZES AND PRICES.

No.	Price.
13—"Ohio" Self-feed Cutter.....	\$95.00
16—"Ohio" Self-feed Cutter.....	120.00
18—"Ohio" Self-feed Cutter.....	155.00
19—"Monarch" Self-feed Cutter.....	200.00
20—"Ohio" Self-feed Cutter.....	250.00
24—"Ohio" Self-feed Cutter.....	300.00
Reversible Carrier, 12 feet long, for No. 11.....	33.75
Straight Carrier, 12 feet long, for No. 11.....	30.25
Straight Carrier, 12 feet long, for Nos. 13, 16 or 18.....	33.50
Straight Carrier, 12 feet long, for Nos. 19 or 20.....	40.00
Straight Carrier, 12 feet long, for No. 24.....	45.00
Swivel Carrier, 12 feet long, for Nos. 13, 16 or 18.....	45.00
Swivel Carrier, 12 feet long, for Nos. 19 and 20.....	55.00
Swivel Carrier, 12 feet long, for No. 24.....	60.00
Extra length per foot for Nos. 11, 13, 16 and 18.....	1.70
Extra length per foot for Nos. 19, 20 and 24.....	2.25
1903 Shredder Blades for No. 13, \$3.00; 16, \$3.75; 18, \$4.50 each.	
Wood cover, with hooks and eyes to fasten, Nos. 20-24, a foot, 35¢.	
Less 30 Per Cent. Retail.	

Fig. 785.

## Boiler or Steam Feed Cooker.

### SIZES AND PRICES.

No. 1-19 in. shell; height over all, 54 in.; 9 flues; 325 lbs.	\$3.50
No. 2-19 in. shell; height over all, 58 in.; 13 flues; 370 lbs.	\$40.00

Price includes two gauge cocks, blow-off cock, pump, safety valve, 2 ft. 6 in. of suction hose, 3 ft. steam pipe, with valve to convey steam to barrel or vat.

**Special Price for Cash.**

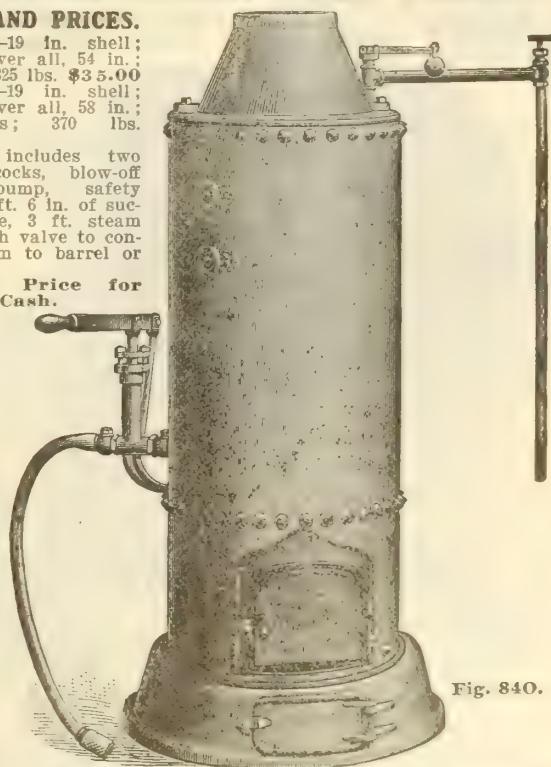
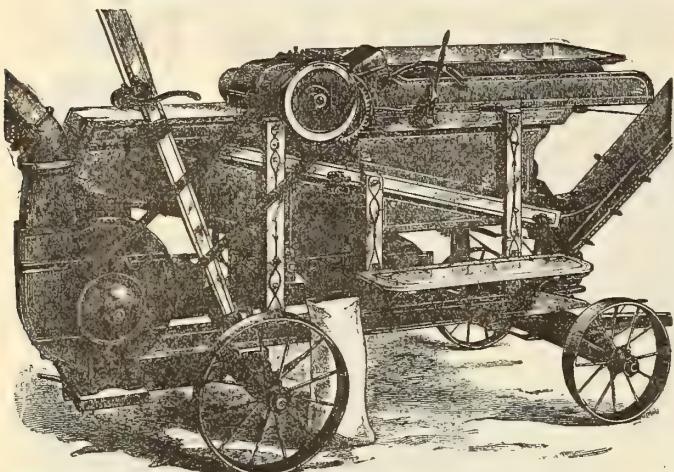


Fig. 840.

Steel boiler with lap-welded flues, well riveted and calked, capable of standing 150 lbs. hydraulic pressure, and carrying steam pressure of 100 lbs. to the square inch. Fire-box provided with grates adapted to burning all kinds of fuel; will cook or steam feed placed in a barrel or vat, with but little care and without danger of burning.



## APPLETON CORN HUSKER.

Husking device is perfect. There is no husking device on the market that works on a different principle than this will, under equal conditions, husk so clean without clogging, shell so little corn and consume so little power. It does not depend on large pegs, screws or similar devices to take off husks. Husking rolls, built on the only correct principle, different from all others, positively do not and cannot clog. Rolls cannot "wind up," the knives running through entire length of each alternate roll entirely overcoming this objectionable feature.

An exclusive feature of the swivel blower is that there are no abrupt angles, which in other blowers cause clogging. The hood at end of blower pipe can be turned in any direction; both pipe and hood are galvanized.

**SWIVEL EAR CARRIER.**—Another exclusive feature is that it is the only carrier that can be run straight out from the husking rolls at any desired angle, or to either side of machine. The angle of elevation is adjustable so that corn can be elevated into a wagon box or crib.

Built in three sizes—No. 14 2-roll machine; No. 18 4-roll machine; No. 24 6-roll machine. Furnished with or without truck.

Cut shows how husking rolls, shaker shaft and cleaner fan are driven by a single heavy belt from main shaft. The only sprocket chain used is for driving the swivel ear-corn carrier.

No. 14—Two-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower, with belt and wheel mounting. \$210.00

No. 14—Husker with shredder head instead cutter head \$225.00

No. 14—Husker with both cutter and shredder head. \$235.00

No. 18—Four-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower, with belt and wheel mounting. \$275.00

No. 18—Husker with shredder head instead cutter head \$290.00

No. 18—Husker with both shredder and cutter head. \$305.00

No. 24—Six-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower, with belt and wheel mounting. \$375.00

No. 24—Husker with shredder head instead cutter head \$390.00

No. 24—Husker with both cutter and shredder head. \$415.00

Blower pipe, extra length, per foot..... 1.10

We recommend with cutter head—No. 14, 2-Roll—4 to 6 H. P.  
No. 18, 4-Roll—6 to 8 H. P. No. 24, 6-Roll—8 to 10 H. P.

## TWO-HORSE POWER No. 6.

Can be used with 1 or 2 sweeps. The tumbling rod makes 60 revolutions to one walk of the horses, has ratchet knuckle. Weight of power about 600 pounds.

Price with 1 Sweep \$35.00

Price with 2 Sweeps 38.00

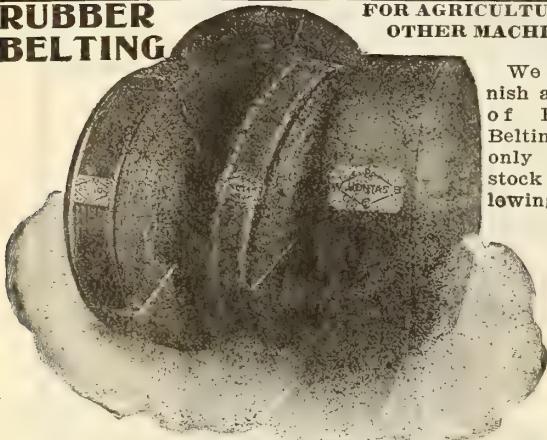
## FOUR-HORSE POWER No. 7. WITH TWO SWEEPS.

Is constructed on same principle as our 2-horse power, but is much heavier and stronger. Train of gearing is direct. Weight of power, complete with 2 sweeps, tumbling rod and pulley, is about 925 lbs. Speed of tumbling rod, 81 revolutions to one walk of horses. Length of sweeps, 12 ft., requiring circle of 27 ft. in diameter for walk of horses. Furnished with 20 or 24-in. pulley. Price, \$50.00.

## RUBBER BELTING

FOR AGRICULTURAL and OTHER MACHINERY.

We can furnish a full line of Rubber Belting, but only carry in stock the following sizes:



	List.	Retail.		List.	Retail.
3-in., 3-ply...	26c. ft.	15c. ft.	5-in., 3-ply...	43c. ft.	26c. ft.
3-in., 4-ply...	31c. ft.	18c. ft.	5-in., 4-ply...	52c. ft.	31c. ft.
4-in., 3-ply...	34c. ft.	20c. ft.	6-in., 4-ply...	62c. ft.	37c. ft.
4-in., 4-ply...	42c. ft.	25c. ft.			

**Special Prices for Cash.**

Larger and smaller sizes on application.

## O. D. CANVAS STITCHED BELTING.

Made by the most improved machinery from cotton duck manufactured especially for the purpose. Its advantages are, great strength and durability, absence of excessive stretch, uniformity in weight and surface, assuring perfect adhesive power and smoothness in running. It is cured by an original process to make it waterproof and impervious to atmospheric changes. Especially adapted for outdoor work.

	List.	Retail.		List.	Retail.
2-in., 4-ply...	20c. ft.	9c. ft.	6-in., 4-ply...	60c. ft.	27c. ft.
3-in., 4-ply...	30c. ft.	14c. ft.	6-in., 6-ply...	87c. ft.	40c. ft.
4-in., 4-ply...	40c. ft.	18c. ft.	8-in., 4-ply...	80c. ft.	36c. ft.
5-in., 4-ply...	50c. ft.	22c. ft.	8-in., 6-ply...	1.16 ft.	52c. ft.

**Prices of Other Widths and Plies to Order.**  
Endless Belts, 3c. foot extra.

## SPUR AND BEVEL GEAR JACKS.

Are intended to increase speed and transmit power by belt. Spur gear transmits motion at right angle with tumbling rod, and bevel gear transmits in line with tumbling rod and gives band wheel two revolutions to one of tumbling rod.

Heavyweight Jacks. \$12.00. Lightweight Jacks. \$10.00

## STALK CUTTER.

6-blade, single row, 7-blade, single row,  
Price....\$27.00 Price....\$28.00

6-blade, double row....Price \$50.00

This is practically an all-steel frame machine, making it neat of construction and giving it ample strength beyond question. The wheels are all steel, with removable box and 2-inch tire. The lever is within easy reach of the operator and is connected with pressure spring which connects with the cylinder or knife heads, and with which can be produced an even pressure at all times on the knives. For certain sections of the country, and when specially ordered, we equip machine with axles that run through cylinders.



## Scientific Corn Harvester No. 1.

Knives 2 feet apart at points and 5 feet 9 inches apart at heel. Safety Seats protect Operator and Adjustable Safety Shafts protect the Horse.

The cut can be adjusted from 3 inches to 14 inches high.

Steel frame and malleable iron parts, making it strong and durable.

Steel knives tempered. Set on wings so as to give an easy upward shearing cut.

Steel wings fold up when not in use. Ears are not knocked off. Operator sits down while at work. Weight, 300 pounds.

Price.....\$22.50

## CUT RAW-HIDE BELT LACING.

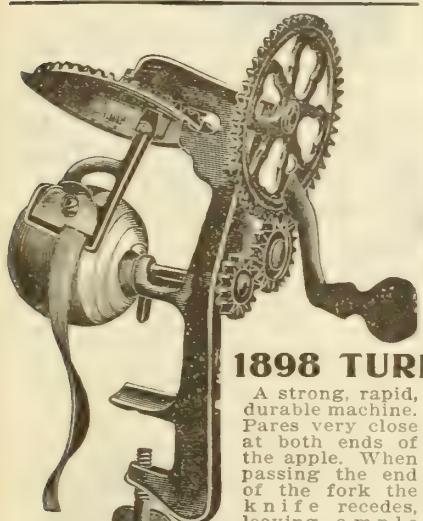


5/8-inch.	List price, per 100 feet.....	\$1.50
1/2-inch.	List price, per 100 feet.....	2.00
5/8-inch.	List price, per 100 feet.....	2.75

**Special Prices in Bundles of 100 Feet.**

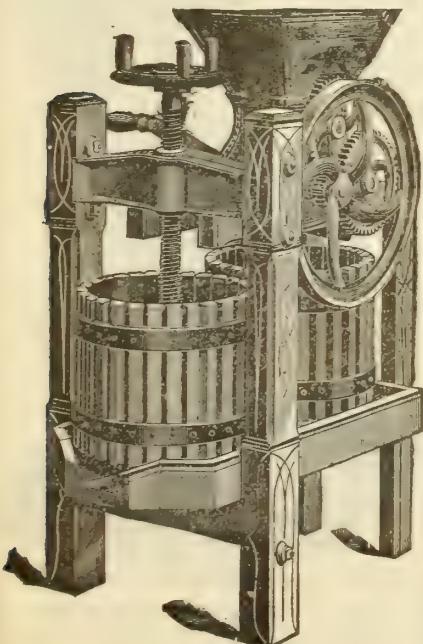
**BERRY PRESS.**

No. 1 .....	\$1.00
No. 2 .....	1.50
No. 3 .....	7.25



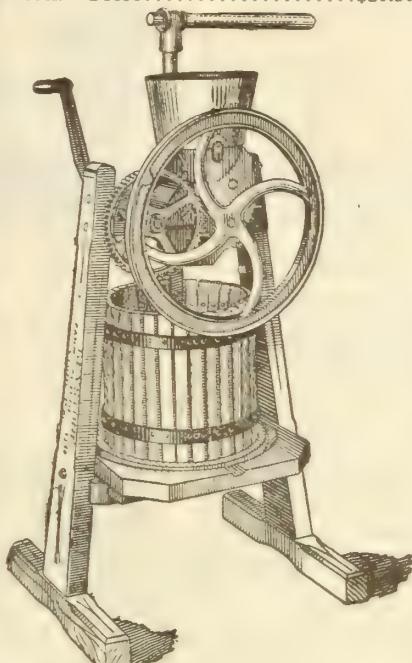
### 1898 TURNTABLE APPLE PARER.

A strong, rapid, durable machine. Pares very close at both ends of the apple. When passing the end of the fork the knife recedes, leaving a ample room for placing the apple on the fork. Does not core or slice. Push-off is automatic. Price..... 70c. each.



### BALTIMORE SPECIAL CIDER AND WINE MILL.

Similar to the wine and cider mill shown in annexed cut, only it is larger, and will take larger apples, and, being a geared mill, will do much more rapid work. Price..... \$10.50.



### Wine and Cider Mill

This is a very handy little mill for making a small quantity of cider, 5 or 10 gallons at a time. All of the juice of the apples can be gotten out, but not so rapidly as with the other styles on this page. It is really intended more for grinding grapes and other small fruit for wine, and is so constructed as not to crack the seed.

No. 0—Single Cage Mill..... \$8.50  
No. 1—Single Cage Mill..... 10.00

### "Junior" Hand Cider Mill.

This Mill is almost identical with the "Medium" and "Senior," except it is smaller, and it has only one handle. In the preparation of the pomace for cider, it is the same in all its parts, Price..... \$12.50

### "Medium" Hand Cider Mill.

A compromise between the "Junior" and "Senior," and a general favorite. Has only one handle.

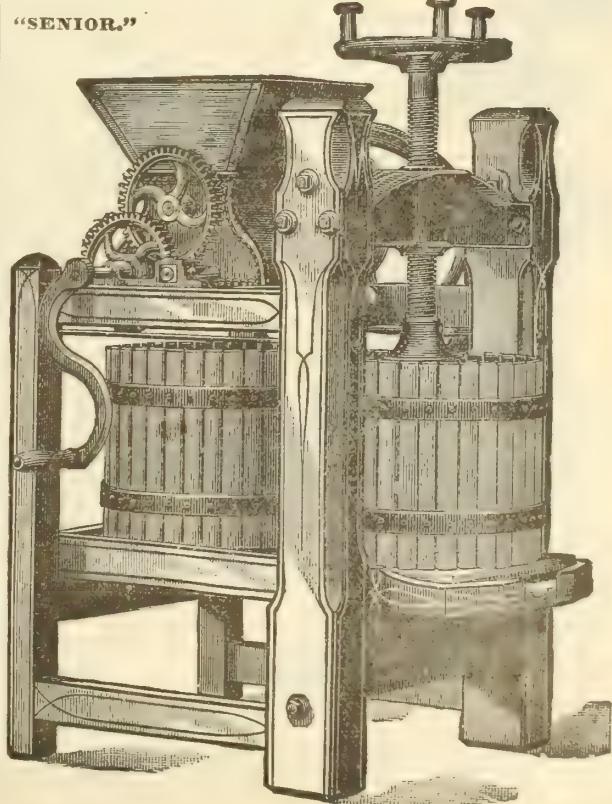
Price..... \$17.00

### "Senior" Hand and Power Cider Mill.

This is our largest-sized Mill, adapted for hand or power, with a detachable handle on either side. The top set of rolls first mash the fruit fine, and the bottom set grinds it, thoroughly breaking all the cells, so that the cider is entirely extracted. These mills produce more cider to a given quantity of apples than any other Mill on the market.

Price..... \$20.00

### "SENIOR."



# THE SCIENTIFIC CORN AND COB MILLS.

## STYLE H.—No. 1.

Has double breakers, partition hopper, pin breaker and safety bottom. It grinds ear corn or any and all kinds of small grain separately, or any two or more mixed, for feed.

**GRINDING PLATES.**—10 inches in diameter, and run only in one direction—to the right. Can furnish left hand if desired. Will furnish an extra set free in this style of mill, but in no other, as all others are reversible.

**POWER.**—4 to 8 horse to sweep power, or 4 to 6 horse steam power.

**PULLEY.**—Furnish an 8-inch diameter, 6½-inch face pulley, unless special size is ordered, which can be furnished without extra charge.

**SPEED.**—Horses, 800 to 1000 revolutions per minute; steam, 1000 to 1200.

**CAPACITY.**—Ear corn, 8 to 18 bushels. If corn is new or wet, the work can be done, but not so fast. Shelled corn, 8 to 20 bushels per hour. All kinds of small grains separately, or corn and oats or other grains mixed, 6 to 15 bushels per hour. Weight, 508 pounds.

**Price of This Mill, Complete, With Extra Set of Plates.....\$65.00**

## STYLE L.—No. 1.

Has double breakers, with partition hopper, pin breaker and safety bottom. It grinds ear corn with shucks on, shelled corn, oats, rye, barley, cheat screenings, or any kind of small grain separately, any two or more mixed, for feed.

**GRINDING PLATES.**—12 inches diameter, of extremely hard metal, and very durable. Are reversible and self-sharpening, having double the capacity of non-reversible plates.

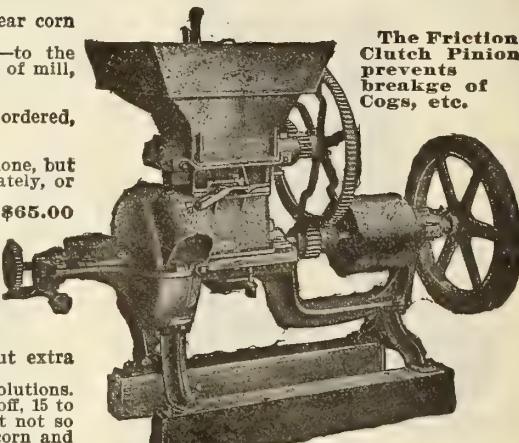
**POWER.**—8 to 12 horses to sweep power; 6 to 10 horse steam power.

**PULLEY.**—8-inch diameter, 6½-inch face; can furnish larger if desired, without extra charge.

**SPEED.**—Steam power, 1000 to 1200 revolutions per minute; horse, 800 to 1000 revolutions.

**CAPACITY.**—Ear corn with shucks on, 10 to 20 bushels per hour; with shucks off, 15 to 30 bushels. If corn is new, wet or frozen the work can be done equally as well, but not so fast. Shelled corn, 25 to 40 bushels per hour. All other small grains separately, or corn and oats or other grains mixed, 15 to 30 bushels per hour. Weight, 560 pounds.

**PRICE.....\$75.00**



The Friction Clutch Pinion prevents breakage of Cogs, etc.

Prices on Power Mills  
Subject to Special Discount.

## Scientific No. 5 Triple-Geared Sweep Mill

This mill is similar to the Scientific No. 6, except it is smaller, and without tilting hopper about one-third less capacity. Mounted on a box. Very convenient. Double action, easy running. Complete in every particular. Does first-class work. The best on the market at the price. Weighs about 550 lbs. Price, with 1 set of grinding plates, \$28.00.

### Special Discount for Cash.

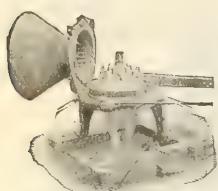


We also carry a plain sweep power mill. Single action. Grinds successfully ear corn and all kinds of small grain. One or two-horse, capacity about 5 to 8 bushels per hour. Weighs about 400 lbs. Price, \$20.00. **Special Discount for Cash.**

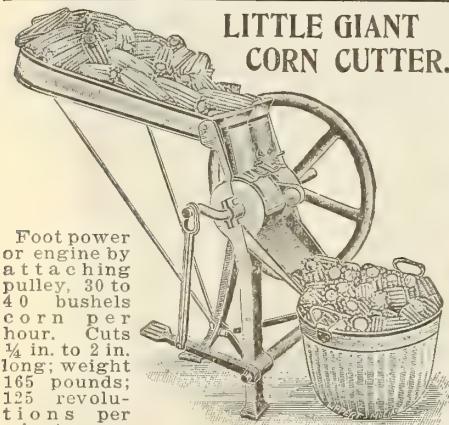
## Scientific No. 6 New Geared Sweep Mill.

### DOUBLE ACTION.

Its gearing consists of three gear pinions, which revolve on independent chilled studs. The mill grinds all grains, but is especially effective and rapid on ear corn, and our double-action feature, which is applied to these mills, prevents any cobs lodging in hopper at the end of a run. Its capacity is 10 to 15 bushels per hour. Weight of mill, 700 pounds. **Price of Mill, with extra plates and two baskets, \$35.00. Special discount for cash.**



## LITTLE GIANT CORN CUTTER.



Foot power or engine by attaching pulley, 30 to 40 bushels corn per hour. Cuts ¼ in. to 2 in. long; weight 165 pounds; 125 revolutions per minute.

Price, \$15.00 f. o. b. factory.

## Scientific No. 30.

Same general type as No. 20, but larger, and has greater capacity. Adapted to 5 to 15-horse power engines. Will grind any kind of grain from ear corn to millet into good grades of cattle feed.

All pulleys 6 in. face furnished of proper diameter to suit power and speed of engine. Crusher consists of a series of interlocking cams, provided with projecting chilled fingers or lugs ground to a sharp edge, arranged spirally on crusher shaft. Grinding plates 10 in. diameter; each mill furnished with two sets; one for grinding ear corn, the other for shelled corn. Hopper holds 2½ bushels; mill is 38 inches high, weighs 300 pounds. Capacity 20 to 60 bushels ground feed per hour. When ordering, give speed of engine and diameter of pulley. Price \$40.00.



## The Scientific Double Action Triple Geared Mill, No. 8.

At the ordinary speed of team the one

grinding plate makes 30 revolutions to one round, the other one revolution with each round of team. The grinding plates revolve in opposite directions. Power attachment is furnished so that a corn sheller, feed cutter, saw or similar machines can be operated when grinding is done; plates can be removed and mill used only as a power; 15-ft. tumbling rod with each attachment; we furnish pulley 15x4, 20x4, or 24x4; tumbling rod makes 58 revolutions to one round of horses.

Shipping weight, 1050 pounds. Length of Sweep, 12 feet.

Capacity—Small grain, 12 to 18 bushels per hour, 2 horses; 10 to 15 bushels of ear corn, according to condition of grain and fineness of feed; proportionately increased with 4 horses.

**Price of Mill for Small Grain and Ear Corn, Complete with Two Levers, \$62.50. Special Discount for Cash.**

## No. 5 Staver Buckeye Cob Mill and Power Combined.

For grinding ear corn or small grains.

A rapid-grinding Corn and Cob Mill.

A mill that grinds fine either Ear Corn or Small Grains without change of plates.

A Cob Mill, a Mill for Small Grain, and a good Two-Horse Power combined in one light-running machine.

Capacity—Small Grain, 10 to 15 bus. per hour. Ear Corn, 8 to 12 bus. per hour.

Price, 2 Sweeps, \$50.00. Less Special Discount for Cash.

## SCIENTIFIC COMBINED No. 20 EAR CORN and SMALL GRAIN MILL

For 2 and 4 H. P. Gasoline Engine, with a 2 horse-sweep power or with a 2 or 3-H. P. Engine, the mill will grind shelled corn, oats, rye, barley, wheat and all small grains at rate of 10 to 20 bushels per hour; with a 4 to 6 horse-sweep power or 4-H. P. Gasoline Engine, will grind same amount of ear corn into an excellent quality of feed. The mill is all steel and iron, except hopper and legs, which are of wood. Has two sets of grinding plates—one for medium and other for fine grinding. Pulley of proper size furnished with each mill to obtain right speed, according to power used. Speed 200 to 500 revolutions per minute. Run with 4-inch belt. When run with 2-H. P. Engine, should be run at less speed than when run with a 4 or 6-H. P. Engine. Weight, 225 pounds.

Price.....\$30.00.

### Special Discount for Cash.



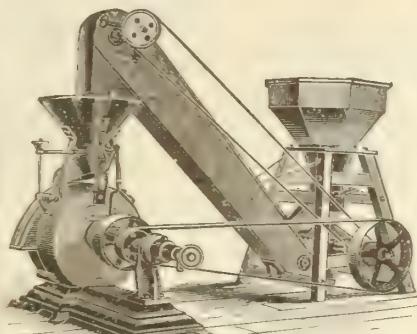
# Spout Waldron Combined Monarch Corn and Cob Outfit.

This Mill consists of one Monarch Standard and one Crusher combined.

## MONARCH

These mills are heavy, strong and durable.

Furnished with ball bearings, and the shells are bab-bitted, turned and bored. Well built and designed for farm use.



### 12-inch Monarch Standard French Burr Mill.

**Dimensions.**—Length over all, 49 inches; width over all, 24 inches; height over all, 32 inches; distance from floor to center of shaft, 13 inches; floor space occupies 20x39 inches; driving pulley, 8 inches diameter, 5 inches face, covered with leather; weight, 500 pounds.

**Speed, Capacity, etc.**—1,000 to 1,200 revolutions per minute; capacity, 5 to 7 bushels of table meal, 12 to 15 bushels feed meal per hour. Power required, 4 to 6 horse-power.

Price—List, \$137.50. Retail, f. o. b. factory, \$68.75; f. o. b. Baltimore, \$73.00.

### 16-inch Monarch Standard French Burr Mill.

**Dimensions.**—Length over all, 56 inches; width over all, 25 inches; height over all, 39 inches; distance from floor to center of shaft, 15 inches; floor space base occupies 22x45 inches; driving pulley, 10 inches diameter, 6 inches face, covered with leather; weight, 800 pounds.

**Speed, Capacity, etc.**—1,000 revolutions per minute; capacity 10 to 12 bushels of fine table meal, 20 to 25 bushels feed meal per hour. Power required, 6 to 10 horse-power.

Price—List, \$180.00. Retail, f. o. b. factory, \$90.00; f. o. b. Baltimore, \$95.00.

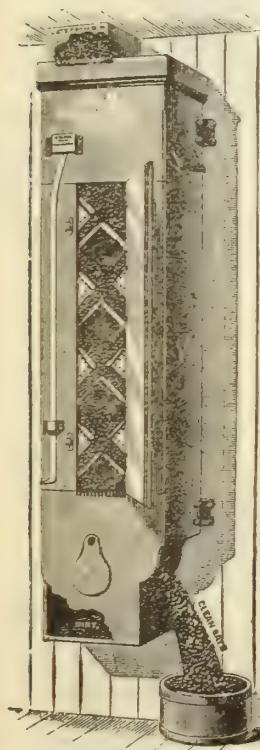
### Higbie Self-Acting Oats Cleaner.

This Cleaner will remove one bushel of dust, dirt, stones, sticks, etc., from every 25 to 30 bushels of cleaned oats; or, in other words, each horse chokes down 7 to 10 bushels of dust, dirt, etc., per year, unless all oats are drawn through a Higbie Self-Acting Oats Cleaner.

Extending from top to bottom of the Cleaner are 11 downwardly inclined screens, operating in pairs. Below each pair of screens is located an A-shaped table; thus the oats fall alternating from the screens to the tables, the object of the A-shaped tables being to divide the oats and give them a very rapid impetus before dashing to the next set of screens. The operating valve is located in the top of the cleaner. Directly below this is a large coarse grate, which permits the oats to pass through, but throws off everything larger, such as stones, sticks, glass or any coarse trash that may be in the oats. Below this grate are the zig-zag screens and the tables extending through the entire Cleaner to the discharge spout below. The dirt box is in the base of the Cleaner, and may be emptied through a hand-hole in the bottom.

Price \$18.00.

In use by Express Companies, Fire Departments, Balto. Transfer Co., Armour, Swift, etc.



Crusher is driven from the mill spindle by 3-inch belt. Crushed corn is carried to crusher mill hopper by elevator, saving extra handling. Need only be run while grinding ear corn; can be stopped or started at any time while mill is in motion.

#### PRICES MILL AND CRUSHER COMBINED.

#### RETAIL PRICES.

	Floor Space.	List Price.	f.o.b. Factory.	Balto.
12-in. Mill, No. 1 Crusher..	.86x46 in.	\$200.00	\$100.00	\$105.75
16-in. Mill, No. 1 Crusher..	.90x54 in.	256.00	128.00	134.50
20-in. Mill, No. 2 Crusher..	1.04x67 in.	350.00	175.00	186.00

**Prices of Monarch Ear Corn Crushers.**—No. 1—30x30-inch floor space; capacity, 12 to 30 bushels corn ears per hour; weight, 350 pounds. Factory list, \$56.00. Retail, f. o. b. Factory, \$28.00; f. o. b. Baltimore, \$32.00.

No. 2—36x36-inch floor space; capacity, 40 to 90 bushels corn ears per hour; weight, 750 pounds. Factory list, \$80.00. Retail, f. o. b. Factory, \$40.00; f. o. b. Baltimore, \$47.00.

### 20-inch Monarch Standard French Burr Mill.

**Dimensions.**—Length over all, 67 inches; width over all, 27 inches; height over all, 41 inches; distance from floor to center of shaft, 16 inches; floor space base occupies 24x54 inches; driving pulley, 12 inches diameter, 8 inches face, covered with leather; weight, 1,350 pounds.

**Speed, Capacity, etc.**—900 revolutions per minute; capacity, 15 to 20 bushels fine table meal, 40 to 50 bushels feed meal per hour. Power required, 10 to 15 horse-power.

Price—List, \$250.00. Retail, f. o. b. factory, \$125.00; f. o. b. Baltimore, \$134.00.

### 24-inch Monarch Standard French Burr Mill.

**Dimensions.**—Length over all, 70 inches; width over all, 32 inches; height over all, 48 inches; distance from floor to center of shaft, 17 inches; floor space base occupies 27x57 inches; driving pulley, 16 inches diameter, 8 inches face, covered with leather; weight, 1,800 pounds.

**Speed, Capacity, etc.**—800 revolutions per minute; capacity, 20 to 25 bushels fine table meal, 60 to 70 bushels feed meal per hour.

Price—List, \$320.00. Retail, f. o. b. Factory, \$160.00; f. o. b. Baltimore, \$171.00.

### 30-inch Monarch Standard French Burr Mill.

**Dimensions.**—Length over all, 70 inches; width over all, 39 inches; height over all, 54 inches; distance from floor to center of shaft, 20 inches; floor space base occupies 30x53 inches; driving pulley, 20 inches diameter, 8 inches face, covered with leather; weight, 2,500 pounds.

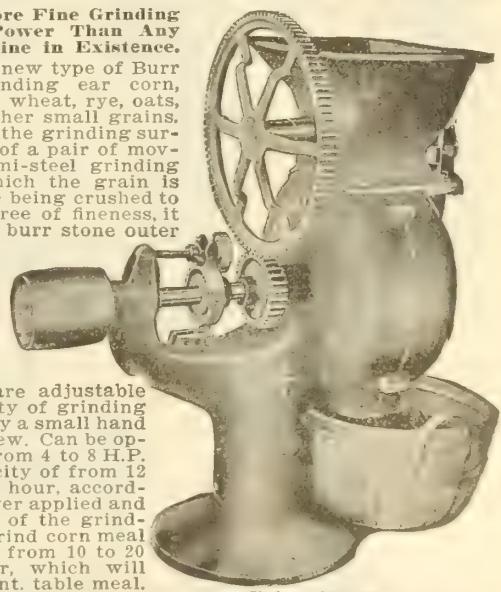
**Speed, Capacity, etc.**—750 revolutions per minute; capacity, 25 to 30 bushels fine table meal, 70 to 100 bushels feed meal per hour. Power required, 20 to 25 horse-power.

Price—List, \$420.00. Retail, f. o. b. Factory, \$210.00; f. o. b. Baltimore, \$225.00.

### Scientific Iron Center Burr Stone Mill No. 34.

#### Will Do More Fine Grinding With Less Power Than Any Similar Machine in Existence.

An entirely new type of Burr Mill for grinding ear corn, shelled grain, wheat, rye, oats, barley and other small grains. The center of the grinding surface consists of a pair of movable 8-in. semi-steel grinding discs into which the grain is fed, and there being crushed to a certain degree of fineness, it passes to the burr stone outer edges, where the grinding process is complete yielding a fine, smooth product. The burr stones and semi-steel plates are adjustable and the quality of grinding is governed by a small hand wheel and screw. Can be operated with from 4 to 8 H.P. It has a capacity of from 12 to 40 bus. per hour, according to the power applied and the character of the grinding. It will grind corn meal at the rate of from 10 to 20 bus. per hour, which will bolt 75 per cent. table meal. Weight, 500 pounds.



Price, \$85.00.

# GASOLINE ENGINES.

ready friend and a most valuable one in these days when good farm help is so scarce. We offer here a line of engines that is sound and practical. Our engines are simple and reliable. They are the product of most successful factories and are the result of years of experience in the manufacture of gasoline engines and a careful study of the requirements of the farmer, who must have a powerful, reliable, well-made engine that is free from trappy devices. **Don't buy an engine without getting our special catalogues and prices.**

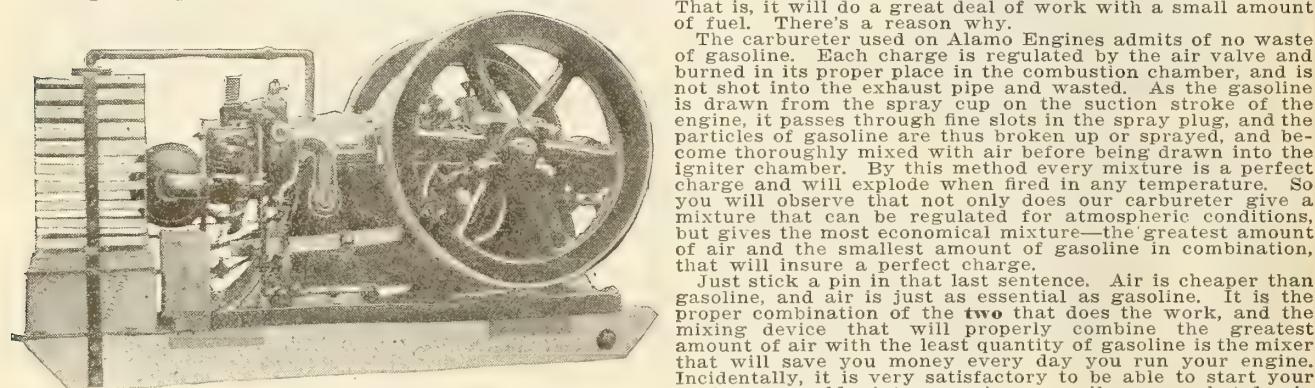
WE HAVE THE BEST LINE OF FARM AND FACTORY ENGINES.

## ALAMO GASOLINE ENGINE.

### THE ONE THAT APPEALS TO PRACTICAL MEN.

In buying an engine, as in buying a horse, you must look at points and pedigree. The Alamo Engine invites your closest scrutiny. It is built in a large and thoroughly modern factory. The company is officered by men of standing in their community. The mechanical and engineering departments are under the supervision of men who are gas engine experts and have a practical and scientific knowledge of the subject, and not a mere smattering of information along these lines. The material used is in all cases that best adapted to the purpose. Each Alamo Engine is rigidly inspected and must respond to every test before it is allowed to leave the factory. There is no element of chance. The engines must be right before they receive the O. K. of our inspectors.

If you are going to invest in a gasoline engine, is not this the kind of engine you want in exchange for your money? Then, too, an Alamo Engine is easy to operate. Its mechanism is readily mastered, and any bright boy or man can run one. Some engines require a wizard or a mechanical expert to get any work out of them. An Alamo Engine is an "easy keeper." That is, it will do a great deal of work with a small amount of fuel. There's a reason why.



Alamo "Semi-Portable" Outfit.

The Alamo Engines have been examined and approved by the National Board of Fire Underwriters. Write for Special Catalogue.

#### PRICES:

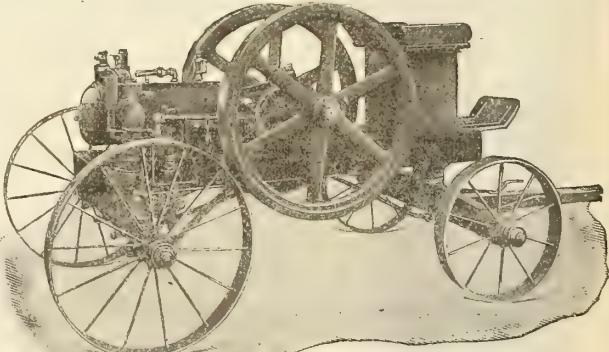
3 H. P. Alamo Standard Engine.....	\$200.00
5 H. P. Alamo Standard Engine.....	275.00
7 H. P. Alamo Standard Engine.....	325.00
9 H. P. Alamo Standard Engine.....	400.00
12 H. P. Alamo Standard Engine.....	500.00
15 H. P. Alamo Standard Engine.....	600.00
20 H. P. Alamo Standard Engine.....	700.00
25 H. P. Alamo Standard Engine.....	900.00

## Ideal Alamo Portable Engine.

This is our popular farm portable outfit. It is remarkable for its simplicity and the ease and steadiness with which it runs. The prices given include the new style circulating water device as shown on the illustration of the semi-portable outfit, and also a high-grade friction clutch pulley. We call special attention to these points.

#### PRICES:

7-H. P. Ideal Alamo Portable Engine, complete with new cooling device and friction clutch pulley.....	\$375.00
9-H. P. Ideal Alamo Portable Engine, equipped as above..	425.00
12-H. P. Ideal Alamo Portable Engine, equipped as above..	500.00



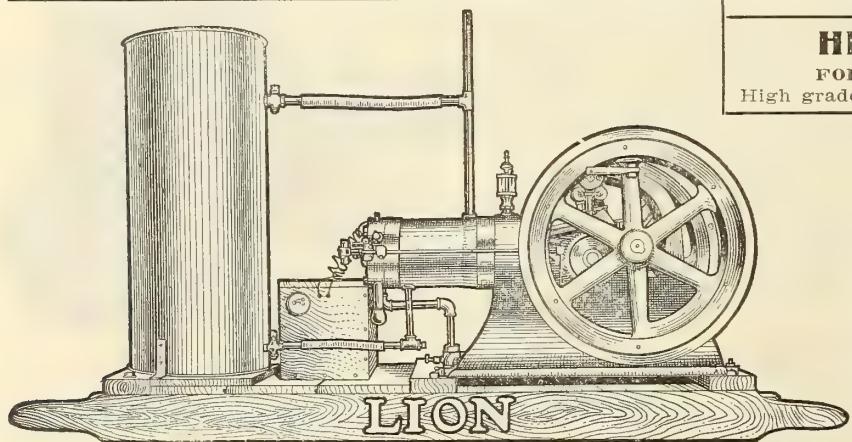
ALAMO GAS ENGINES.  
Special Circular on Application.

## HENRICK'S MAGNETO.

FOR USE WITH GASOLINE ENGINES.

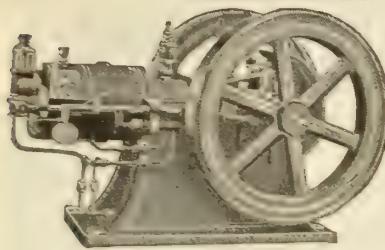
High grade. Always ready. Price.....\$13.50

## 3-H. P. LION ENGINE.



We illustrate here our 3-H. P. Lion Engine, which we offer to those wishing a simple and efficient Gasoline Engine for running a wood saw, feed mill, fodder cutter, etc. It comes complete on skids ready to start. Has starting handle on wheel and gasoline tank in base. Has fly-ball governor and speed can be changed without stopping engine. Best steel forged crank, 8-in. stroke, balance wheels weigh 140 lbs. each. Ignitor is simple and effective, being make and break type. This is just the engine for the farmer wishing something good and reliable at a moderate price.

Price.....\$160.00



New Model No. 1.

## "New Model" Pumping Engines.

SIMPLE. RELIABLE. CONVENIENT. ECONOMICAL.

These Engines are strong and durable, built of extra heavy castings. Nothing but the best of materials enters into their construction. These Engines are not experiments, but are built along well-established lines of good Engine construction. They are of the four-cycle type, which is by far the most satisfactory. They are provided with pump feed, have hit-or-miss governor, latest improved hammer-break igniter. The "New Model" Engine is extremely economical in fuel and is a good power developer. It is very simple, easy to start, and it is an Engine that we can guarantee and recommend to our customers.

**"NEW MODEL" No. 1**—This is a 2-H. P. Engine suitable for all 2-H. P. farm work; occupies a space of 37x22 inches; has a pulley six inches in diameter with 4-inch face, and, when crated for shipment, weighs 500 pounds. Price.....\$100.00

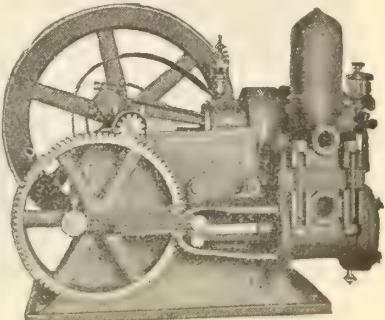
**"MODEL" No. 1**—A 1½-H. P. Engine, similar to above.....\$90.00

**"NEW MODEL" No. 2**—This Engine is like the No. 3, except that it is intended for shallow wells and has pump attached to Engine. The pump will lift 40 barrels of water per hour to a height of 150 feet. It is direct connected to Engine, but can be easily disconnected in a minute or two and the Engine used for general power purposes. For water-supply purposes in mills, factories or country places it stands without a peer. On account of cylinder being at the surface, it will not pump from a well or cistern where the water is over 22 feet below the Engine. Price.....\$150.00

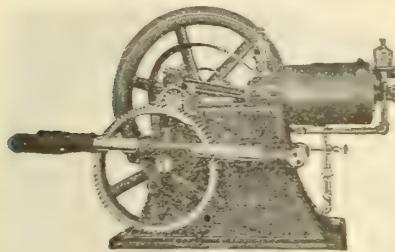
**"MODEL" No. 2**—A combined engine and pump, similar to the "New Model" No. 2, but 1½-H. P. Price.....\$125.00

**"NEW MODEL" No. 3**—Like the Model No. 1, this is a 2-H. P. Engine, but differs from the Model No. 1 in that it has only one flywheel and a pump-jack attachment to the side of the Engine, so that it can be readily attached to any pump of the windmill pattern in a minute's time. The pump gear can be disconnected and the Engine used for power purposes. It occupies a space of 30x39 inches, and it is fitted with an 8-inch pulley with 4-inch face, is automatically governed and weighs, when crated for shipment, 590 pounds. For both deep and shallow well-pumping it is unequalled and will operate any pump requiring not more than 2-H. P. The pump beam is arranged to give a slow upward and more rapid downward stroke, making it possible to lift more water with less wear on the pump than if both strokes were equal. Price.....\$125.00

**"MODEL" No. 3**—1½-H. P. Price.....\$115.00



New Model No. 2.



New Model No. 3.

### No. 1 PUMP JACK.

Designed for use with our Gasoline Engines. Very desirable where Engine is to be used for other purposes than pumping. Suitable for wells not over seventy feet deep. Suits almost any windmill pump. Price.....\$10.00

### No. 2 PUMP JACK.

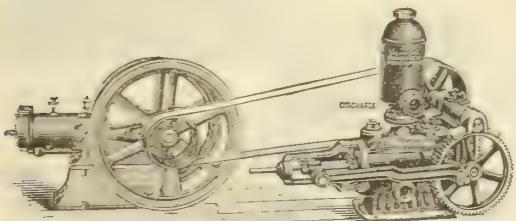
Similar to No. 1 Jack, but heavier, being designed for deeper wells. Price.....\$12.00  
If you want an Engine for pumping only, we recommend our NEW MODEL No. 3, which requires no extra Jack on Pump.

### GOULD'S NEW COMBINATION PUMPING HEAD.

Fig. 1427.

#### For Wells 50 to 125 Feet Deep.

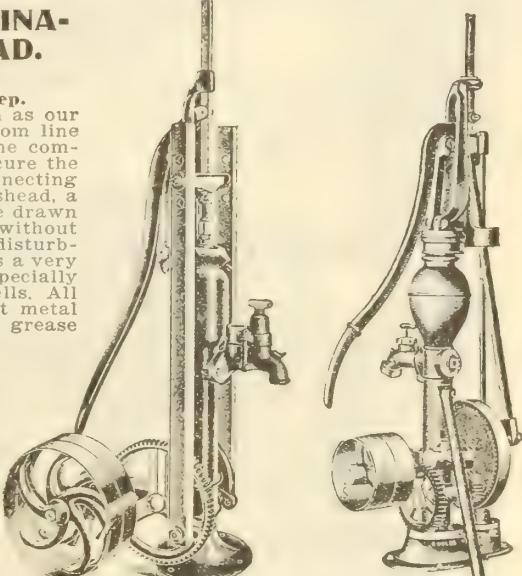
A very strong, compact machine for operating deep well cylinders, such as our Figs. 1230, 1231, 1235, and 1236, either by hand-power, windmill or belt from line shaft, gas or gasoline engine. The stroke is adjustable 6, 8 or 10 in. The compression bib spout is fitted for 1-in. hose. By removing two bolts that secure the stuffing box and disconnecting well rod from the crosshead, a 2½-inch plunger can be drawn up through the base without removing the head or disturbing the piping, which is a very desirable feature, especially for tubular or bored wells. All bearings are of babbitt metal and provided with grease boxes, making a very smooth, easy-running machine of great durability. Suction 1¼ to 2½, as ordered. List Price.....\$40.00  
Retail price....\$25.00  
(Cylinder extra.)



Bulldozer Pump Operated by Engine.

### THE BULLDOZER POWER PUMP

The Fig. 800 Bulldozer Pump, shown above, has been constructed with special reference to power, strength and capacity. Has 5-inch brass-lined cylinder, is double acting and back geared 6 to 1. Recommended for good work under heavy pressure. List price, \$75.00; Retail price, \$50.00.



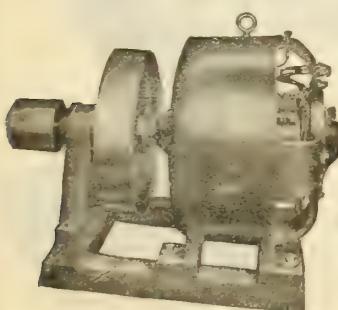
No. 1 Pump Jack. Fig. 1427—Pumping Head.

### ELECTRIC LIGHTING OUTFITS.

We illustrate here our special Gas Engine Type Dynamo and you will note the heavy fly-wheel and extra bearing. We put the metal where it does most good. Suppose the Engine runs 250 revolutions and the dynamo at 1800. It is apparent that, say, a 300-lb. flywheel on the dynamo will do as much good running at 1800 revolutions as 7.2 times the amount of metal, or 2160 lbs., on an Engine running at 250 revolutions. If you want to run an electric light plant with a Gasoline Engine you want an engine of this type, that is, if you want a steady light.

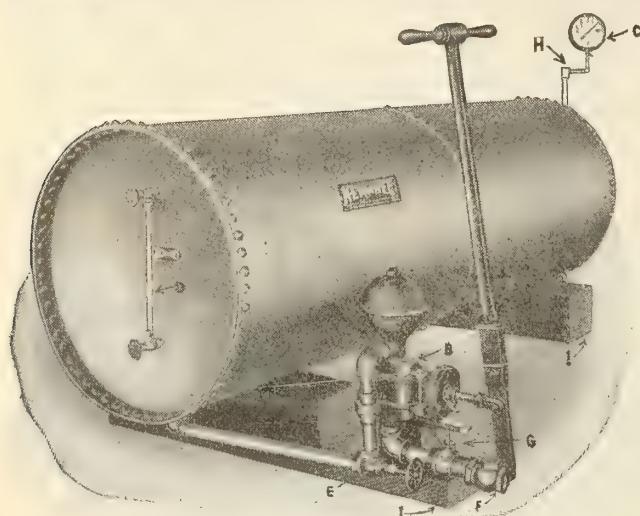
**ALAMO STANDARD ELECTRIC LIGHT ENGINES** are constructed especially for the purpose and are equipped with throttling governor to insure steadiest possible motion.

Special circulars of Electric Lighting Outfits free on application.



# A WATER SUPPLY FOR COUNTRY AND SUBURBAN HOMES.

(KEWANEE SYSTEM.)



Kewanee Outfit No. 7.

It is now possible to supply water under strong pressure to any buildings out of reach of the city water mains, which were previously isolated from a city water system. The man living in the country may have an ample supply for plumbing connections in the bath room, kitchen, laundry, lawn, garden, stable—anywhere. Besides, the buildings will be protected from loss by fire. This service is made possible by

## THE KEWANEE WATER SYSTEM.

The main feature of the Kewanee System is the pneumatic or air pressure tank. It may be placed in the cellar or buried in the ground. Water from the well, cistern or spring or other source of supply is pumped into this pneumatic tank. The tank is air-tight; and as water is pumped into it, the air is compressed. When it is two-thirds full, all the air will be compressed into the upper one-third space. At that point, there will be a pressure of 60 pounds under ordinary conditions. A good average pressure is 40 pounds, which will elevate water about 93 feet.

## THE KEWANEE PNEUMATIC TANK

rests on solid ground, where it can do no damage. It is thoroughly protected from all extremes in weather, offering a frost-proof water system in the winter, and delivering the water in a fresh, useable condition in the summer. It is made of steel, so that it will last indefinitely. It is easily operated and is not complicated.

**KEWANEE OUTFITS** are made in sizes to suit the smallest cottage or the largest buildings or group of buildings. We have the agency for this system and will gladly furnish complete descriptive literature on request.

## COMPLETE KEWANEE OUTFIT No. 7.

This outfit is a popular size for supplying water to the average number of plumbing fixtures for a family of two to six people. It can be used in connection with a cistern or with a well in which the water is not more than 20 feet down. It will provide water to plumbing connections in the bath room, kitchen, and an extra faucet or two. It is complete, ready to set up and put in operation. It will only be necessary to extend suction pipe from the pump to the well or cistern; and then supply pipe from the tank to the plumbing. It includes a hand pump which operates easily. Under average conditions about five to fifteen minutes' pumping each day is sufficient. Price of complete **No. 7 Kewanee Outfit, \$125.00**.

Other outfits can be furnished with windmill, gasoline engine, hot-air engine, steam engine or electric motor as the pumping power. Price of other styles and sizes quoted on application.

## GOODHUE AND GEM WINDMILLS AND TOWERS.

On account of lack of space we are unable to give here a detailed description and complete price list of these goods, but have special catalogues of windmills and towers, and will be glad to mail them to anyone on application; and if you are considering the erection of a windmill we will consider it a favor if you will tell us your requirements and let us make you an estimate.

FOR WINDMILL PUMPS.—See Page 81.



## STORAGE TANKS AND SUB-STRUCTURES.

We handle a full line of Storage Tanks, both round and square, made of Cypress or White Pine; also a line of angle steel and tubular Sub-Structures or Towers for these Tanks. Estimates and detailed information cheerfully furnished.

## GOULD'S IMPROVED HYDRAULIC RAM

The Hydraulic Ram is an automatic device for elevating water. Wherever a flow of water with a gradual fall can be obtained, a portion of the water may be forced to a considerable height. The slight expense for first outlay and maintenance considered, renders them most desirable for supplying running water.

**GOULD'S IMPROVED RAMS** are the result of over forty years' experience in manufacture and practical use. All castings are strong and well proportioned. The air chambers are larger than those of other makes, which, with our improved design of bronze impetus valve and case, enables us to offer the most efficient and reliable Ram in the market.



Size.	Supply per Minute to operate Ram.	Pipes.		List Price.	Retail Price.
		Drive.	Disch.		
No. 2	2 to 3 gals.	¾ in.	½ in.	\$ 9.00	\$ 6.00
No. 3	2 to 4 gals.	1 in.	½ in.	11.00	7.50
No. 4	3 to 7 gals.	1¼ in.	¾ in.	14.00	9.50
No. 5	6 to 12 gals.	2 in.	1 in.	22.00	15.00

PRICES ON PIPE ON APPLICATION.

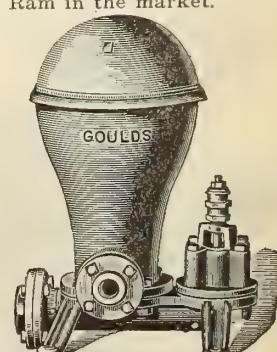


Fig. 345 1/2 RAM.



Adze  
Eye  
Nail Hammer

**EXTRA TOOL STEEL.  
SELECTED HICKORY  
HANDLES.**

No. 111½.—Weight, 1 pound.  
Not polished. Retail price,  
each, 30c.  
No. 91½.—Weight, 1 pound.  
Not polished. Retail price,  
each, 40c.  
No. 41½.—Weight, 1 pound.  
Polished. Retail price, each,  
60c.

Above Weights do not  
Include Handles.

## Riveting Hammer

PLAIN EYE, POLISHED AND HANDLED



Weights do  
not include  
Handles.

No.	Weight	List Price Per Doz.	Retail Price Each.
230	4 oz.	\$5.50	40c.
231	7 oz.	5.75	45c.
232	9 oz.	6.00	50c.
233	12 oz.	6.25	55c.
234	15 oz.	6.50	60c.

## LINK CHAIN BELTING.

FOR USE ON  
MOWERS, REAPERS,  
DINDERS, CORN AND  
WHEAT DRILLS,  
CORN SHELLERS,  
FEED CUTTERS,  
STRAW STACKERS,  
TRACTION ENGINES,  
ETC.



Number.	Links per Foot.	Working Strain, Pounds.	List Price Per Foot.	All Plain Links.	Retail Price Per Link.
25	13.3	75	12c.	2c.	2c.
32	10.4	150	12c.	2c.	2c.
33	8.6	200	12c.	3c.	3c.
35	7.4	250	12c.	3c.	3c.
42	8.75	300	13c.	3c.	3c.
45	7.4	350	13c.	3c.	3c.
48	6.	375	15c.	4c.	4c.
55	7.4	450	18c.	4c.	4c.
62	7.25	650	24c.	5c.	5c.
65	5.66	550	24c.	6c.	6c.
72½	7.25	925	30c.	7c.	7c.
76½	5.8	700	30c.	8c.	8c.

## Machinist's Ball Pein Hammer

FULL POLISHED  
AND HANDLED.



## Engineers' Hand Hammer

FULL POLISHED  
AND HANDLED.



No. 381.—Weight, 1 lb.  
10 oz., list price per doz.,  
\$13.00; retail price each,  
75c.

No. 382.—Weight, 2 lbs.;  
list price per doz., \$14.00;  
retail price each, 85c.

Above Weights do not include  
Handles.

## Blacksmith's Hand Hammer

OIL FINISH, NOT HANDLED.

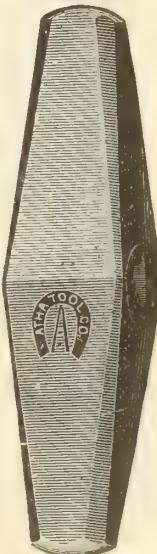
No. 860—5 lb. and over, per lb., List, 30c. Retail, per lb., 8c.  
3 to 5 lb., per lb., List, 36c. Retail, per lb., 9c.  
Under 3 lb., per lb., List, 45c. Retail, per lb., 10c.



BLACKSMITH'S SLEEVES.

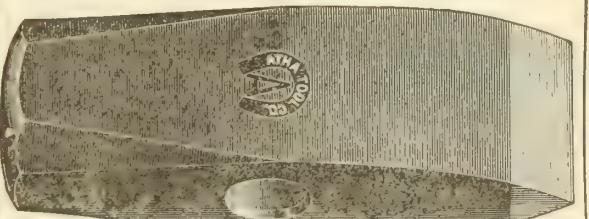
No. 830—5 lb. and over, per lb., List, 30c. Retail, per lb., 8c.  
3 to 5 lb., per lb., List, 36c. Retail, per lb., 9c.

## Napping Hammers No. 890.



## STONE SLEDGES No. 730.

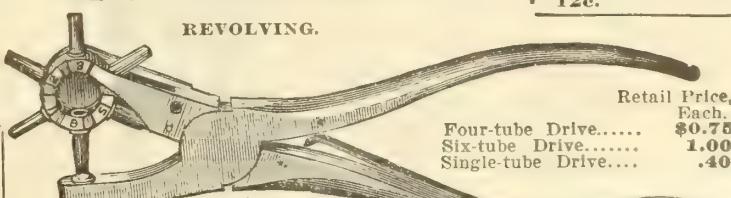
NOT HANDLED.



Weight 5 to 30 lb., per lb., List, 30c. Retail, 8c.

## BELT PUNCHES.

REVOLVING.



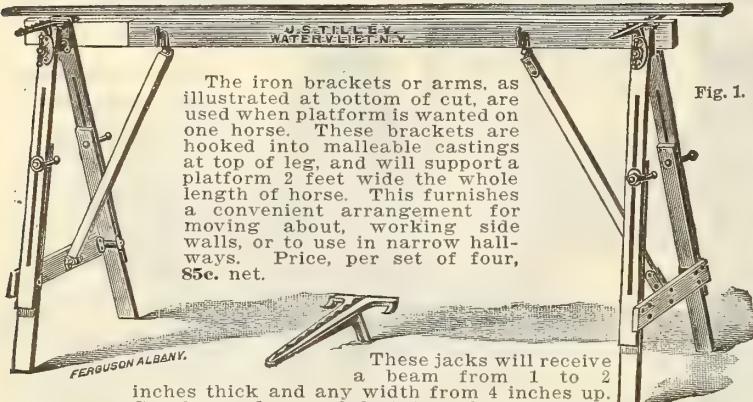
Retail Price,  
Each.  
Four-tube Drive..... \$0.75  
Six-tube Drive..... 1.00  
Single-tube Drive.... .40

ROUND.



Retail Price,  
Each.  
Nos. 1 to 6..... 10c.  
Nos. 7 to 9..... 15c.

# Tilley Adjustable Patented Scaffolding Jacks.

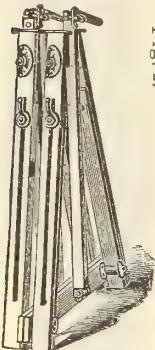


The iron brackets or arms, as illustrated at bottom of cut, are used when platform is wanted on one horse. These brackets are hooked into malleable castings at top of leg, and will support a platform 2 feet wide the whole length of horse. This furnishes a convenient arrangement for moving about, working side walls, or to use in narrow hallways. Price, per set of four, 85c. net.

These jacks will receive a beam from 1 to 2 inches thick and any width from 4 inches up. Can be used on a 3-foot to a 30-foot beam.

Are light, strong and suitable for plasterers, carpenters, painters and paperhangers, the putting up of metal ceilings, shafting, pulleys, etc. Nos. 8 and 13 have an extra end brace on slotted legs, with iron brace at each end of same. Nos. 9, 10, 14, 15 and 16 have extra end braces, same as 8 and 13; also have an extra grip on friction bolt in each traveling leg, making the jacks much stronger than formerly. This improvement consists of suspension brackets, which permits of making a scaffold at any elevation lower than the height of the jack when down to its limit. These brackets can be used with jacks already sold. They cost but 60c. With them and the proper size jack, the scaffold can be made to fit a store or basement.

Fig. 2 shows two jacks represented in Fig. 1 as "knocked down." It is unnecessary to comment upon its compact form.



	$3\frac{3}{4} \times 1\frac{1}{4}$ Slotted Leg.	$3\frac{1}{8} \times 1\frac{1}{8}$ Traveling Leg.	Per Jack.
No.			
5.	Stands 3 ft. high, will extend to 5 ft.	"	\$2.50
6.	" 4 "	"	2.50
7.	" 5 "	"	2.80
8.	" 6 "	"	3.20
9.	" 7 "	"	3.55
Brackets, per set of four, net.....			.85

#### EXTRA HEAVY FOR PLASTERERS AND MILL WORK.

	$4 \times 1\frac{1}{4}$ Slotted Leg.	$3\frac{1}{8} \times 1\frac{1}{8}$ Traveling Leg.	Per Jack.
No.			
11.	Stands 4 ft. high, will extend to 6 ft.	"	\$2.90
12.	" 5 "	"	3.20
13.	" 6 "	"	3.60
14.	" 7 "	"	4.00
15.	" 8 "	"	4.30
16.	" 10 "	"	6.00

#### Tilley Improved Sectional Ladders.

Sections 6 feet 5 inches long. Either plate and pin lock or lock nut fastening. Per Section, \$1.50.

#### SINGLE LADDERS.

Made of spruce, with hand shaved oak rounds; first class in every particular.

Price,

12, 14, 16, 18 feet,  
15c. per foot

Ladders over 18 feet,  
2c. per foot extra.

Also have a cheaper single ladder, 2c. per foot less than above prices.

No. 1—Bottom or floor section.

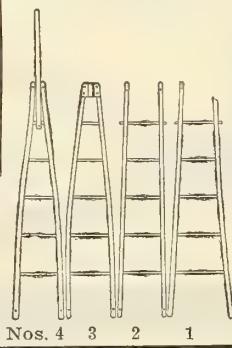
No. 2—Regular or middle section.

No. 3—Top window cleaners' section.

No. 4—Top fruit pickers' section.

Price, any section, per section, \$1.25.

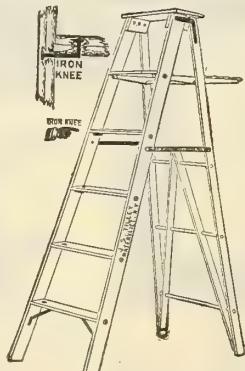
#### Window Cleaners' and Fruit Pickers' Ladders.



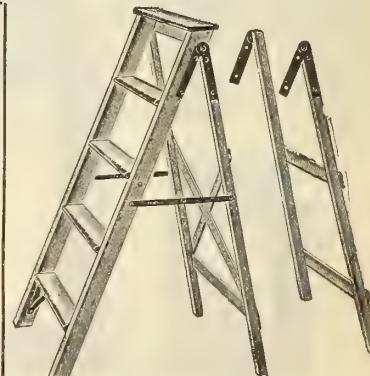
This old reliable and well-known ladder hook needs very little explanation. The cut explains all its merits and utility for a roof ladder. It can be quickly attached or detached. Price 50c. each.

#### TILLEY LADDER HOOK.

#### TILLEY Trojan Step Ladder.



Light, strong and stiff. Iron knees under ends of each step. These knees pass entirely through the steps and side bars, holding ladders firmly together and insuring a strong brace to the steps. Pail rests on all sizes of 5 feet and over. Furnished in 6, 8, 10 and 12 foot lengths. Price 30c. per foot.



Well adapted to any use to which step ladders are put. It has a special style of hinge connecting front and back, bolted on, rodded, and well braced with iron. Some prefer the open back detached, as it admits of using a plank to make a platform more readily.

#### Prices of Step Ladders, With Pail Rest.

5 feet...	\$2.25	12 feet...	\$4.50
6 feet...	2.50	14 feet...	7.00
8 feet...	3.00	16 feet...	8.00
10 feet...	3.50	18 feet...	9.00
			Also have a cheap Step Ladder, per foot, 15c.

## THE GRIFFITH & TURNER IMPROVED, COMBINED STEP AND EXTENSION LADDER.

### THE MATERIAL USED.

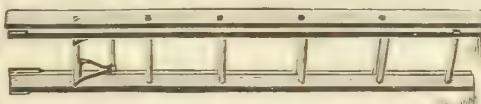
Norway pine for sides; rock elm or hickory for rungs; the very best grade of malleable iron castings for metal parts.

Can be almost instantly changed to any height up to nearly twice its closed length, the rungs always being exactly opposite each other in the lapped portion, no matter what the amount of extension; or by swinging the bottoms apart, a reliable and convenient step-ladder is obtained. They can also be extended or closed, and for any use that a step-ladder can be used are very desirable. All ladders over 24 feet in length are made in two long sections, with flared bottom, adding to the rigidity and reducing the slipping at bottom to a minimum. This ladder will come apart and each section can be used separately. This style can, of course, be extended or closed, but does not swing apart, forming a stepladder, as does the other style.

In ordering, bear in mind that a certain amount has to be allowed for the "lap" when the ladder is in its most extended form, the amount of necessity increasing as the ladders increase in length, in order to obtain perfect safety and firmness. In length of 12 to 18 feet deduct one foot for lap—that is, a 12-foot ladder would be 6 feet high when closed or would form a 6-foot stepladder, but would be only 11 feet long when extended. In lengths of 20 to 32 feet deduct two feet, and from 34 to 40 deduct three feet from the total length in same manner.

### PRICE LIST.

12-ft. exten. ladder makes	6-ft. stepladder.....	<b>\$2.16</b>
14-ft. exten. ladder makes	7-ft. stepladder.....	<b>2.52</b>
16-ft. exten. ladder makes	8-ft. stepladder.....	<b>2.88</b>
18-ft. exten. ladder makes	9-ft. stepladder.....	<b>3.24</b>
20-ft. exten. ladder makes	10-ft. stepladder.....	<b>3.60</b>
22-ft. exten. ladder makes	11-ft. stepladder.....	<b>3.96</b>
24-ft. exten. ladder makes	12-ft. stepladder.....	<b>4.32</b>
26-ft. extension ladder, in two sections of 12 and 14 ft. each.....		<b>5.20</b>
28-ft. extension ladder, in two sections of 12 and 16 ft. each.....		<b>5.60</b>
30-ft. extension ladder, in two sections of 14 and 16 ft. each.....		<b>6.00</b>
32-ft. extension ladder, in two sections of 14 and 18 ft. each.....		<b>6.40</b>
34-ft. extension ladder, in two sections of 16 and 18 ft. each.....		<b>6.80</b>
36-ft. extension ladder, in two sections of 16 and 20 ft. each.....		<b>7.20</b>
38-ft. extension ladder, in two sections of 18 and 20 ft. each.....		<b>7.60</b>
40-ft. extension ladder, in two sections of 18 and 22 ft. each.....		<b>8.00</b>



EXTENDED.

### "A"-SHAPED TRESTLES—STRONG AND LIGHT.

Made in All Sizes, From  
6 Feet to 12 Feet.  
2-6-ft. Trestles.... \$6.00  
2-8-ft. Trestles.... 8.00  
2-10-ft. Trestles.... 10.00  
2-12-ft. Trestles.... 12.00



### EXTENSION TRESTLES.

#### AUTO-MATIC LOCKING DEVICE.

No rods to take out, no thumb nut to adjust. One set of these Trestles will take the place of four sets of ordinary Trestles.

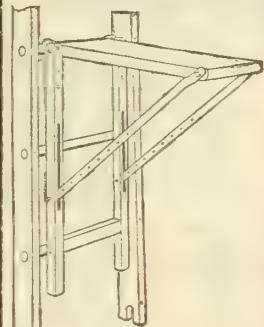
Are adjustable to any angle of the ladder or any pitch of the roof. No fitting to the ladder.

Price, each.... \$3.00

6-foot will extend to about 8 feet.....	each \$4.00
7-foot will extend to about 12 feet.....	each 4.50
8-foot will extend to about 14 feet.....	each 5.00
9-foot will extend to about 16 feet.....	each 6.00
10-foot will extend to about 18 feet.....	each 7.00

Other lengths will be furnished on order.

### LADDER BRACKETS.

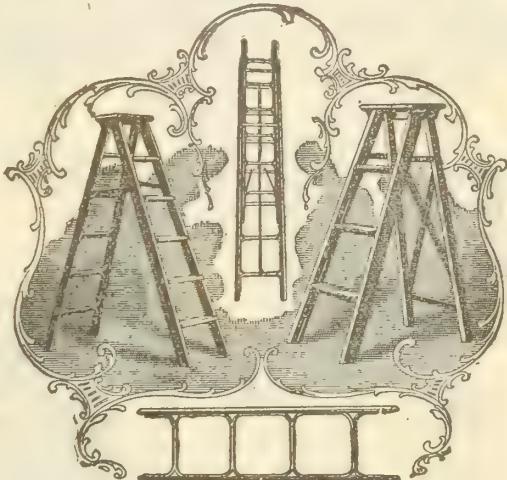


Are adjustable to any angle of the ladder or any pitch of the roof. No fitting to the ladder.

Price, each.... \$3.00



### Bent Rung Step, Extension and Single Ladders.



A 16-foot Single Ladder weighs only 21 to 25 pounds. By drawing out a small rod at top of stepladder it can be converted into two separate ladders. These goods are made nearly altogether by hand, and are very much superior to factory ladders. No holes are bored in the side pieces, thus making them the strongest and lightest ladders made.

The rungs are made of toughest hickory. A slight groove in the side pieces, in which the rungs are set, acts as a brace and aids to stiffen the ladder.

### SINGLE LADDERS.

Less 20 per cent. from the following prices:		
8 feet..... \$2.00	12 feet..... \$3.10	16 feet..... \$4.30
10 feet..... 2.50	14 feet..... 3.70	18 feet..... 4.90
20 feet.....		5.60

### COLUMBIA BENT-RUNG DOUBLE STEPLADDERS.

Less 40 per cent. from the following prices:

4 feet..... \$3.00	7 feet..... \$4.50	10 feet..... \$6.00
5 feet..... 3.50	8 feet..... 5.00	12 feet and upward, prices on application.
6 feet..... 4.00	9 feet..... 5.50	

### BENT-RUNG SINGLE STEPLADDERS.

Same lengths and prices as above. Less 60 per cent.

### EXTENSION LADDERS.

Less 30 per cent. from the following prices:

Two Ladders.	Two Ladders.
Each. Extended. Price.	Each. Extended. Price.
10 feet..... 17 feet..... \$7.40	16 feet..... 29 feet..... \$12.20
12 feet..... 21 feet..... 8.90	18 feet..... 33 feet..... 14.40
14 feet..... 25 feet..... 10.40	19 feet..... 35 feet..... 15.20
15 feet..... 27 feet..... 11.20	20 feet..... 37 feet..... 16.00

### HASTING'S STEPLADDER

with upright support under each step. Stiff, Strong and Durable. All lengths from 6 to 10 feet, 18c. per foot.

First Class in Every Particular. Special Prices to Paperhangers, Painters and the Trade Generally on all Ladders.

WETTLING STEPLADDER. Good quality. All lengths from 4 to 10 feet at 15c. per foot. Special Prices in quantities.

## ATKINS' CELEBRATED SAWS

## HAND SAW



## HAND SAWS.

**No. 38**—American straight back; plate on handle. Our special price.....**.75c.** each.

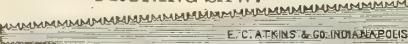
**No. 59**—Sheffield Saw Works. Skew back; beech handle; polished edge, 7 to 9 points. Factory list price, **\$14.00** per dozen. Our special price.....**\$1.00** each.

**No. 54**—Silver steel; beech handle; straight back; polished edge, 7 to 9 points. Factory list price, **\$22.00** per dozen. Our special price.....**\$1.50** each.

**No. 53**—Silver steel, skew back; carved and polished apple handle, with Atkins' perfection handle. Factory list price **\$25.50** per dozen. Our special price...**\$1.75** each.

Special Prices in Quantities.

## PRUNING SAW.



E. C. ATKINS &amp; CO., INDIANAPOLIS

## ONE MAN CROSS-CUT SAW.

American tooth, 3 ft....**\$1.75**

American tooth, 3½ ft....**2.00**

American tooth, 4 ft....**2.25**

American tooth, 4½ ft....**2.50**

Special Prices in Quantities.

## PRUNING SAWS.

## No. 2 Duplex Pruning Saws.

16-inch. Our special price....**.85c.**

18-inch. Our special price....**.75c.**

20-inch. Our special price....**.85c.**

## CROSS-CUT SAWS, NARROW AMERICAN.

AMERICAN TOOTH  
EATKINS & CO., INDIANAPOLIS, IND.

## NARROW AMERICAN.

5 ft.—Our special price.....**\$1.25**

5½ ft.—Our special price.....**1.35**

Special Prices in Quantities.

PRICE OF CROSS-CUT SAWS IS WITHOUT HANDLE.  
Climax Handles, 15c. per Pair.

## JOBBERS' DRILLS No. 105

## JOBBERS MACHINISTS' SETS.

Diameter.	Length, Inches.	List Price, per Dozen.	Retail Price, per Dozen.	List Price, Each.	Retail Price, Each.
1-16	2 1/2	\$1.60	\$0.60	\$0.09	\$0.05
3-32	2 3/4	1.20	.70	.11	.06
1-8	3	1.45	.85	.13	.07
5-32	3 1/4	1.80	.95	.16	.09
3-16	3 3/4	2.20	1.25	.20	.11
7-32	3 3/4	2.65	1.50	.23	.13
1-4	4	3.15	1.80	.28	.15
9-32	4 1/4	3.65	2.10	.32	.20
5-16	4 1/4	4.20	2.40	.37	.21
11-32	4 3/4	4.80	2.75	.42	.25
3-8	5	5.40	3.10	.48	.28
13-32	5 1/4	6.00	3.50	.53	.31
7-16	5 1/2	6.80	3.90	.59	.34
15-32	5 3/4	7.50	4.30	.65	.37
1-2	6	8.00	4.60	.70	.41

For very exact work, a gauge, plainly marked, should accompany an order.

## BIT-STOCK DRILLS.

FOR METAL OR WOOD, No. 109.

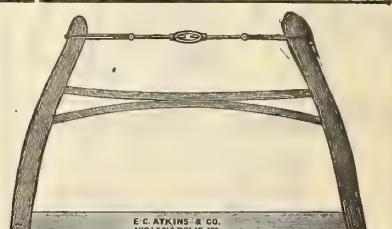
Diameter.	List Price, per Dozen.	Retail Price, per Dozen.	List Price, Each.	Retail Price, Each.
2-32	\$1.50	\$0.75	\$0.14	\$0.07
3-32	1.65	.85	.16	.08
4-32	2.10	1.05	.20	.10
5-32	2.60	1.30	.24	.12
6-32	3.10	1.55	.29	.15
7-32	3.60	1.80	.33	.18
8-32	4.10	2.05	.38	.20
9-32	4.70	2.35	.43	.25
10-32	5.40	2.70	.48	.26
11-32	6.30	3.15	.54	.27
12-32	7.20	3.60	.62	.31
13-32	8.00	4.00	.68	.34
15-32	9.60	4.80	.82	.41
16-32	10.30	5.15	.87	.45
9-16	14.35	....	1.20	.60
5-8	16.15	....	1.35	.65
3-4	19.75	....	1.65	.85

These Drills will fit any brace on the market. Will drill steel, iron or other metals as well as wood. Will bore any kind of wood without splitting.

## SILVER &amp; DEMING DRILLS.

No. 112. SHORT LENGTH.				
Fitting Boynton & Plumer and Silver & Deming Blacksmith's Drill Presses, Nos. 1 and 2, with shanks 1/2 in. diameter.				
L'gth.	List Price,	Diam.	L'gth.	List Price,
Diam.	In.	Pr. ea.	Pr. ea.	Pr. ea.
1-8	4 7/8	\$0.45	20.23	13-16 6 \$1.35
5-32	4 7/8	.48	.24	27-32 6 .40
3-16	4 1/2	.50	.25	.70
7-32	4 3/4	.55	.28	.73
1-4	6	.60	.30	.76
9-32	6	.65	.33	.85
5-16	6	.70	.35	.90
11-32	6	.73	.36	1-16 6 1.90
3-8	6	.75	.37	31-32 6 1.90
13-32	6	.78	.39	1-18 6 2.00
7-16	6	.80	.40	2-20 6 2.00
15-32	6	.83	.41	2-25 6 2.00
1-2	6	.85	.43	2-32 6 2.00
9-16	6	.90	.45	2-35 6 2.00
19-32	6	.95	.48	1-16 6 2.00
5-8	6	1.05	.53	1-18 6 2.00
21-32	6	1.10	.55	1-24 6 2.00
11-16	6	1.15	.58	1-32 6 2.00
23-32	6	1.20	.60	1-40 6 2.00
3-4	6	1.25	.63	1-48 6 2.00
25-32	6	1.30	.65	1-56 6 2.00

The above drills have shanks 2 1/4 inches long and 1/2 inch diameter.



## WOOD SAWS.

**No. 617**—Wood brace frame; single rivet; painted red; plain tooth; breasted blade; 2 1/4 in. wide. Our special price, **60c.**

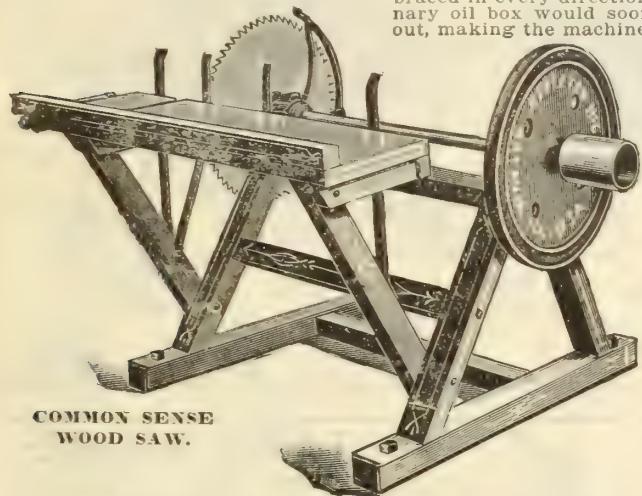
**No. 523**—Wood brace frame; single rivet; selected stock; high finish; painted red; jumbo rod tinned; Tuttle tooth; breasted blade; 2 1/4 in. wide. Our special price, **75c.**

**No. 823**—Cantilever frame; selected maple stock; fine natural wood finish; jumbo rod tinned; Tuttle tooth blade breasted, 2 1/4 in. wide. Our special price, **\$1.00.**

Wood Saw Bucks, **35c.**

## APPLETON WOOD SAWS.

For over twenty years the manufacturers of these Wood Saws have set the standard in wood saw construction. Their thorough knowledge of the business enables them to keep abreast of all the modern requirements and to incorporate in the construction of the Appleton Saws every improvement demanded by present needs and approved by practical experience. The circular saw has to be run at a high rate of speed to do its work satisfactorily; therefore, the frame should be very strong and rigid and as simple in design as is compatible with efficiency, because a breakage when in operation would be dangerous to the operator. For the frames of our saws only the best material adapted to the purpose is used, the same being the proper weight to insure ample strength. For absolute rigidity these frames are strongly mortised and bolted together and firmly braced in every direction. There is no shape to an Appleton Wood Saw Frame. An ordinary oil box would soon become clogged with dust or become heated and quickly cut out, making the machine wobbly and dangerous; therefore, Appleton Saws have a special type of dust-proof, babbitted boxes having large oil chambers, and will last a lifetime with reasonable usage. The arbor used on Appleton Saws is the best.



COMMON SENSE  
WOOD SAW.

### NEW STYLE TILTING TABLE POLE SAW.

The original frame of this style and the best Pole Saw on the market; embodies all the latest ideas; imitated by many but equalled by none; requires more power than Common Sense Saw.

Price, without Saw Blade.....	\$30.00
Price, with 24-inch Saw.....	38.00
Price, with 26-inch Saw.....	39.00

### APPLETON EXTENSION TABLE POLE SAW.

Built like Common Sense, but has 6-foot table to left of blade instead of to right. A good light-power Pole Saw.

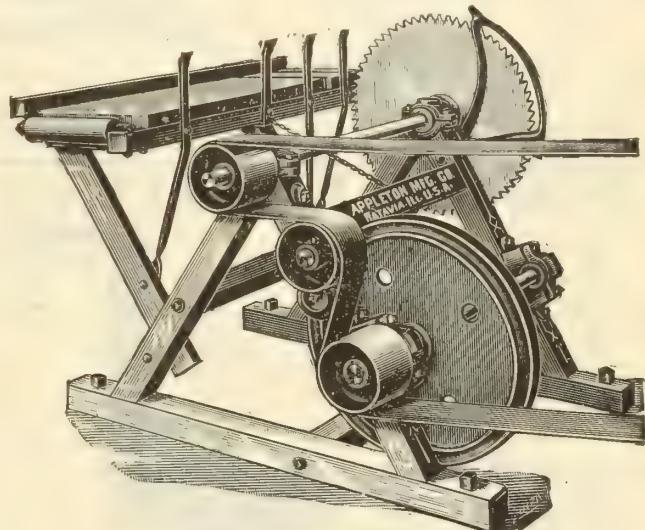
Price, without Saw.....	\$25.00
Price, with 24-inch Saw.....	33.00
Price, with 26-inch Saw.....	34.00

"SIMPLE, STRONG, SAFE AND SUCCESSFUL."

### THE COMMON SENSE TILTING TABLE WOOD SAW.

An old favorite, on account of its strength, durability and convenience. Very fast work can be done with it.

Price, without Saw Blade.....	\$22.00
Price, with 22-inch Saw.....	29.00
Price, with 24-inch Saw.....	30.00
Price, with 26-inch Saw.....	31.00



NEW STYLE POLE SAW.

### "American" Improved Variable Friction Feed Saw Mills.

THE LIGHTEST RUNNING AND EASIEST TO SET UP  
AND OPERATE.

The American Saw Mill is especially adapted to Gasoline Engine power and can be successfully run with a 7 or 9 H.P. Engine. We know of no other mill that will do this. Made in eight sizes and strictly up-to-date. The No. 1 American Saw Mill and our 9 H.P. Alamo Gasoline Engine make a nice outfit, and will cut 3,000 feet of lumber per day. Send for special Saw Mill Catalogue and circular with opinions of many who know by experience that the American Saw Mills are all we claim for them.

#### PRICES OF "OUR POPULAR FARM OUTFITS."

**Outfit A**—Consisting of "American" No. 1 Standard Saw Mill, with variable friction feed with 48-in. Solid Tooth Saw. \$225.00

**Outfit B**—Consisting of "American" No. 1 Saw Mill, as described in Outfit A, also one 9-H.P. Ideal Alamo Portable Gasoline Engine, complete with new cooling device, friction clutch pulley and 50 feet 6-inch canvas belting. 650.00

**Special Catalogue and Prices on Larger Sizes on Application.**

### The American "Up-to-Date" Shingle Machine.

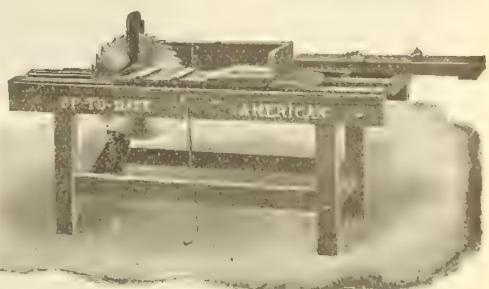
To meet the demand for a reliable yet low-priced Shingle Machine, suitable for small mills, farmers and others having light power, we have brought out our "UP-TO-DATE" Shingle Machine, shown in the accompanying cut. It is thoroughly well made throughout of the best materials.

Power Feed is provided which is thrown into gear by pressure of the foot on the stirrup, and the machine can be used either with hand or power without change in adjustment.

A new feature, and a very valuable one, is the handy little edger, which has an 8-inch saw and a convenient gauge, insuring square, straight-edge shingles. Capacity, 10,000 to 15,000 shingle per day.

The machine will handle square, round or split blocks and does not require an experienced operator.

Price complete, with edger, \$85.00. Price complete, without edger, \$75.00.





## OSGOOD'S WAGON SCALES.

THE HERCULES (Trussed Steel Levers).

THE CHALLENGE (Wood Levers).

These scales are built on the direct leverage plan. That is, the four levers run directly to the beam rod from the four corners of the platform. A load at any point on the scale platform will weigh the same. These scales are fitted with patent protected steel-lined cushioned bearings, which are protected from dirt and water. The knife edges are the very best tool steel carefully tempered; beams and poises are made of best quality red brass, polished. Either triple or double beam. Triple beam requires no loose weights.

OSGOOD SCALES ARE RELIABLE. BUY NO OTHER KIND.

## PRICES OF THE HERCULES STEEL LEVER SCALES.

No.	Capacity.	Platform.	Double Beam.		Triple Beam.	
			List Price.	Retail Price.	List Price.	Retail Price.
250	3 tons.	8 x 14 ft.	\$70.00	\$40.00	\$80.00	\$46.00
260	4 tons.	8 x 14 ft.	75.00	43.00	85.00	49.00
270	5 tons.	8 x 14 ft.	80.00	46.00	90.00	52.00

## PRICES OF THE CHALLENGE WOOD LEVER SCALES.

No.	Capacity.	Platform.	Double Beam.		Triple Beam.	
			List Price.	Retail Price.	List Price.	Retail Price.
75	3 tons.	8 x 14 ft.	\$50.00	\$32.50	\$60.00	\$37.50
80	4 tons.	8 x 14 ft.	55.00	35.50	65.00	40.50
85	5 tons.	8 x 14 ft.	60.00	38.50	70.00	43.50

Prices do not include wood frame or platform. On Challenge Scale customer furnishes wood levers. We do not furnish extension levers with any of the above scales.

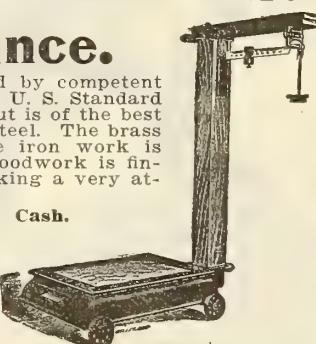
## PORTABLE SCALES.

## The Defiance.

They are carefully adjusted by competent workmen, and are guaranteed U. S. Standard Scales. The material throughout is of the best quality, and all pivots are of steel. The brass work is highly polished; the iron work is japanned in black, and the woodwork is finished in its natural color, making a very attractive combination.

## Special Discount for Cash.

- 600-lb.—Size of Platform, 16x23, \$10.75.
- 800-lb.—Size of Platform, 16x25, \$12.00.
- 1000-lb.—Size of Platform, 17x26, \$13.50.

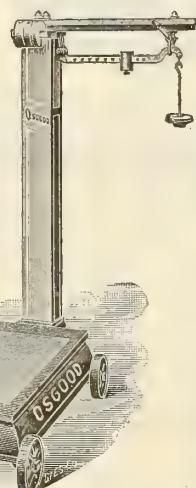


## The Osgood.

Every individual part is made with extreme care. The pivots and bearings, both in the beam and under the platform, are made of strong, hard, finely-tempered steel. The beam, sliding poise and thumbscrew are of highly-polished brass. The castings are extra heavy, the platform full size, and the axles run through the frame. The pillar, caps and board are of the best seasoned hardwood.

Every Scale is carefully sealed with United States Government standard weights and guaranteed absolutely correct.

List Price.	Retail Price.
600 lbs... \$33.00	\$18.00
800 lbs... 38.00	20.00
1000 lbs... 43.00	23.00



## PORTABLE FORGES.

Strong, light-running, durable and stiff, and are the best of this kind. Fig. 907 (see cut) and Factory Fig. 906 have oblong hearths, but 907 has higher sides to hold more coal. (See cut.)

Fig. No. 907 (See cut).—Height, 30 inches. Size of hearth, 29½x46 inches. Size fan, 15 inches.

No. 1 Complete, as in cut:  
Factory list price... \$50.00  
Our special retail... 20.00

No. 1, Same, with Water Tank:  
List price..... \$55.00  
Our special retail... 22.00



## CAST ALUMINUM SCOOPS.

MADE OF PURE ALUMINUM, CAST IN ONE PIECE, LIGHT AND CONVENIENT—ABSOLUTELY INDESTRUCTIBLE.

No. 1—Size, 4x11 inches.	Each, \$1.25
No. 2—Size, 5x12 inches.	Each, 1.50
No. 3—Size, 5 ½ x14 inches.	Each, 1.75
Per set.....	\$4.50

## CRESCENT GALVANIZED STEEL SCOOPS.

## FOR SUGAR AND SALT.

Siemens steel, extra galvanized, non-corrosive. Hard maple heads and handles.

No. 3—Capacity, 2½ lbs.. 25c.	No. 5—Capacity, 4½ lbs.. 35c.
No. 4—Capacity, 3½ lbs.. 30c.	No. 6—Capacity, 5½ lbs.. 40c.



## THE CELEBRATED MONARCH STUMP PULLERS.

These Stump Pullers are the strongest and most convenient of any on the market. Lack of space makes it impossible for us to give a detailed description of them, but no one can afford to buy a Stump Puller without investigating the merits of the Monarch Machine.

- Monarch, Jr., Stump Puller, for one horse, with 8 ft. anchor and 50 ft. pulling cable... \$30.00.
- No. 1, Two-Horse Monarch Stump Puller, with 10 ft. anchor and 75 ft. pulling cable... 65.00.
- No. 2, Two-Horse Monarch Stump Puller, with 12 ft. anchor and 100 ft. pulling cable... 90.00.

Monarch Stump Puller Prices, f. o. b. Factory. Larger sizes on application. Hercules red strand wire rope used.

**GRIFFITH & TURNER  
BALL-BEARING  
GRIND-  
STONE.**



The G. & T. B. B. Grindstone has combination steel and hardwood frame. Stone carefully selected Berea grit. Ball-bearing steel journals and axles.  
 No. 1 Stone, 90-110 pounds, each.....\$3.75  
 No. 2 Stone, 70-80 pounds, each.....3.50  
 No. 3 Stone, 40-50 pounds, each.....3.25  
 Stones usually furnished vary in thickness from 1 $\frac{3}{4}$  to 2 $\frac{1}{4}$  inches.

Weight of frame and fixtures, only 32 pounds. Shipped knocked down unless ordered otherwise. If crated an additional charge will be made.

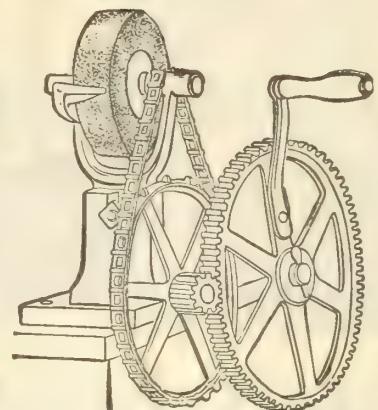
**NORKA  
ANTI-FRICTION  
BI-PEDAL  
GRIND-  
STONE.**



Frame made from 1-in. tubing and fitted with No. 3 Stone, weighing from 40 to 50 lbs., and about 17 in. diameter: anti-friction bearings.

The frame is so constructed it cannot tip over, either backwards or sideways, and stands very firmly. Boxes strong and heavy. Shipped knocked down unless otherwise ordered. Frame easily and quickly set up. Price, \$4.00.

**EMERY  
TOOL GRINDER.**



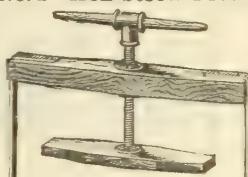
For grinding any kind of tool. The cut represents

**THE HOUSEKEEPER'S FRIEND.**

Will give a keen edge to all kinds of household cutlery. Any lady can use it.

Price.....\$2.50.

**No. 1—Iron Screw Press.**



The Nos. 1 and 2 Screw Presses have the followers attached to screw, which device is patented. The follower attached thus can revolve, and is taken up with the screw after the barrel is headed. The screw is of 1-inch iron. The side clamps are steel, and are fastened to the head with two bolts.

**PRICE:**

No. 1 Screw Press.....\$1.25  
 No. 2 Screw Press, extra heavy. 1.50

**THE ACME LEVER PRESS.**

Has an improved rotary connection between crosshead and side clamps. It can be operated from either side of the barrel, and has the same general construction of Climax Press.

**PRICE:**

Acme Lever Press, No. 7.....\$1.00

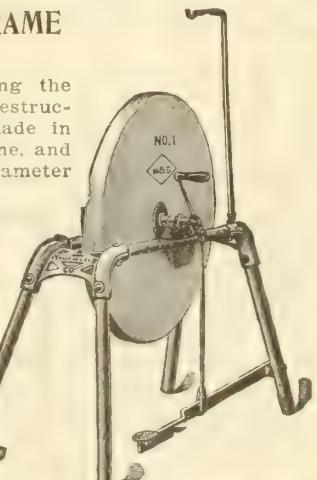
**Improved  
Barrel  
Headers.**

**The Patent  
Screw Press.**

**"W. & B." TUBULAR FRAME  
GRINDSTONE.**

All parts fit perfectly, causing the stone to run true. Absolutely indestructible—nothing to wear out. Made in two sizes—No. 1, for 30-inch stone, and No. 2, for a stone 24 inches in diameter or less.

No. 1, each.....\$5.25  
 No. 2, each..... 5.00  
 No. 3, each..... 4.75



**W. & B. BI-PEDAL  
GRINDSTONE.**

**Tubular Frame With Roller  
Bearings.**

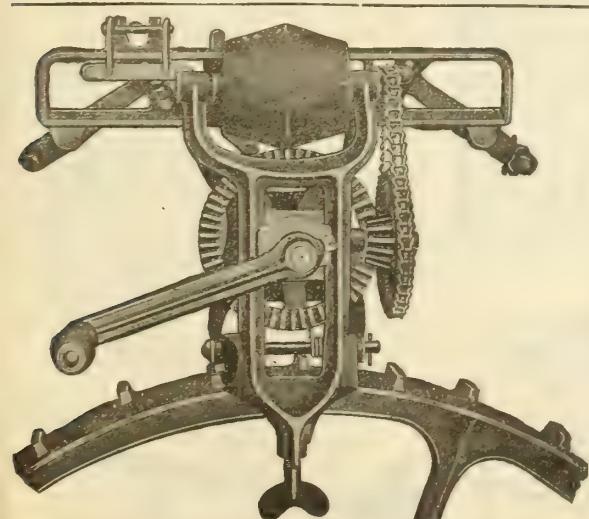
No. 10, each.....\$5.75  
 No. 20, each..... 5.50  
 No. 30, each..... 5.25

**DIAMOND  
SICKLE  
GRINDER.**

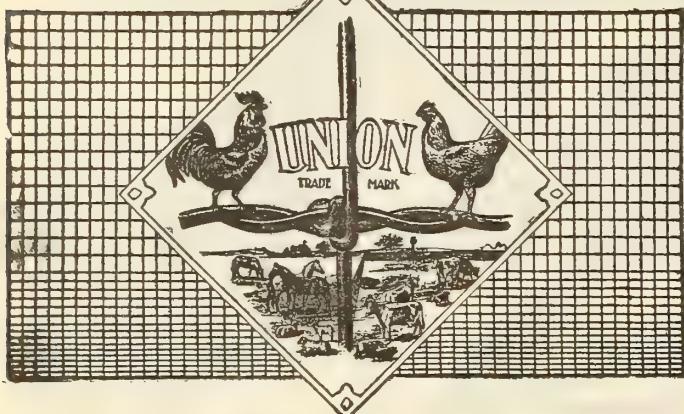
Can be easily set to grind at any bevel. No clamping required to hold knife in position. Only two gears in entire machine. Emery wheel best obtainable; will not glaze nor draw temper from knives. Can furnish straight-faced stone when desired for grinding tools. Easily attached to bench, mowing machine wheel, or other suitable place.

PRICE, \$3.00.

**WE CARRY A FULL LINE OF  
LOOSE STONES OF ALL  
SIZES, 2c. PER LB.**



## Union Lock Poultry Fence



## DIAMOND MESH POULTRY NETTING.

The wire we offer is all Nos. 19 and 20, double twist, 2-inch mesh, thoroughly galvanized after weaving. Sold in bales of 150 running feet.

No.	In.	Sq.	List Price		Retail Price		No.	In.	Sq.	List Price		Retail Price	
			Per Bale.	Per Bale.	Per Bale.	Per Bale.				Per Bale.	Per Bale.	Per Bale.	Per Bale.
19	12	150	\$3.75	\$ .85	20	12	150	\$3.37	\$ .75				
19	18	225	5.62	1.26	20	18	225	5.07	1.12				
19	24	300	7.50	1.68	20	24	300	6.75	1.52				
19	36	450	11.25	2.53	20	36	450	10.12	2.27				
19	48	600	15.00	3.38	20	48	600	13.50	3.04				
19	60	750	18.75	4.22	20	60	750	16.87	3.79				
19	72	900	22.50	5.96	20	72	900	20.25	4.56				

Price 1c. per square foot in less than bale lots. Staples for fastening, 10c. per pound. We also carry in stock a few sizes of 1-inch mesh, as follows:

No.	In.	Sq.	List Price		Retail Price		No.	In.	Sq.	List Price		Retail Price	
			Per Bale.	Per Bale.	Per Bale.	Per Bale.				Per Bale.	Per Bale.	Per Bale.	Per Bale.
19	24	300	\$19.50	\$4.39	20	24	300	\$16.50	\$3.71				
19	36	450	29.25	6.58	20	36	450	24.75	5.57				
19	48	600	39.00	8.78	20	48	600	33.00	7.43				

## GALVANIZED STEEL WIRE CLOTH.

Used largely in corn-cribs to make them ratproof; also for making stoves, grain fan screens, etc. Widths 14 to 48 inches.

2x2—3x3 mesh, sq. ft., 4c.  
Full rolls, 3½c. sq. ft.  
4x4 mesh, sq. ft., 4½c.  
Full rolls, 4c. sq. ft.

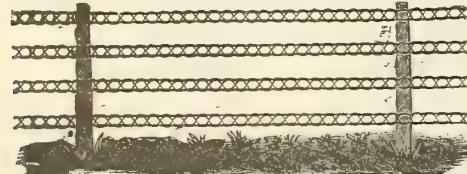
The word mesh means number of meshes to the inch. (2x2 mesh, 2 to the inch; 4x4 mesh, 4 to the inch, etc.)

Special price in roll lots 100 feet or more.

Barbed Wire, Ribbon Wire, Plain Twisted Two-Stranded Wire, Plain Galvanized Wire, Plain Annealed Wire, Panel Wire.

PRICES ON APPLICATION.

## Truss and Cable Fence Wire.



Prices on application.

## Never Slip Stretcher.

Price 75c.



The cost of Bale Ties is from 40 to 60 cents per ton of hay. To get the length of the tie required, add 3 inches to the measure around the bale when under pressure. We keep in stock only the standard size, No. 15, 8 ½ feet long, but can furnish any of the other sizes and lengths on order at lowest prices. Retail price on application.

ANNEALED BALING WIRE.—Nos. 11, 12, 13, 14 and 16 always on hand at lowest market prices on application.

BALING TIES.

(CROSS HEAD)

PRICE, 75c.

No. 1.

## WIRE STRETCHER.

The horizontal lines of this fence are all composed of two No. 20 heavily galvanized steel wire twisted together.

Beginning at the bottom, the first 7 cables are 1¼ inches apart, the next 3 cables are 1½ inches apart, then 6 cables 2 inches apart, and all above that 4 inches apart. This gives a mesh of 1½x3 inches at the bottom, where it is needed for small chicks, and above 2 feet, where fowls can only reach when on the wing, the mesh is 3x4 inches.

The pickets are No. 19 galvanized steel wire, and are 3 inches apart.

On account of the pickets being at right angles to the cables, this fence will fit any unevenness of the ground without cutting.

Because of its strength and construction, this fence requires no top or bottom rail and no more posts than the ordinary woven wire stock fence, or about one-half the number needed for poultry netting.

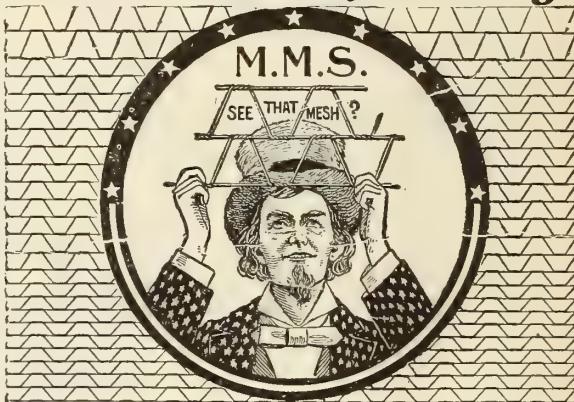
In strength, closeness of mesh, adjustability and economy, it is unexcelled.

List Retail when  
per roll. per roll. cut.

10-rod rolls, 165 ft., 24 in. wide.	<b>\$5.60</b>	<b>\$2.80</b>	<b>2 1/4 c.</b>	per run'g ft.
10-rod rolls, 165 ft., 36 in. wide.	<b>6.90</b>	<b>3.45</b>	<b>2 3/4 c.</b>	per run'g ft.
10-rod rolls, 165 ft., 48 in. wide.	<b>8.30</b>	<b>4.15</b>	<b>3 1/2 c.</b>	per run'g ft.
10-rod rolls, 165 ft., 60 in. wide.	<b>9.60</b>	<b>4.80</b>	<b>4 c.</b>	per run'g ft.
10-rod rolls, 165 ft., 72 in. wide.	<b>10.80</b>	<b>5.40</b>	<b>4 1/2 c.</b>	per run'g ft.
10-rod rolls, 165 ft., 84 in. wide.	<b>13.30</b>	<b>6.15</b>	<b>5 1/2 c.</b>	per run'g ft.

In comparing prices with ordinary poultry netting remember these bales are 15 feet longer.

## M. M. S. Poultry Fencing



An examination of the cut will show how this fence is made. No possibility of sagging, contracting or narrowing together between posts; in consequence, the top and bottom rails are not needed. Made of the best galvanized steel wire, smoothly and evenly woven, and sustains its full height before as well as after stretching.

Beginning at the bottom, the spacing between the horizontal wire for the first foot is 1 ¾ inches, second foot 2 ½ inches and 3 ½ inches above. Furnished in 10-rod rolls, 165 feet.

PRICES .....	List Price per Roll.	Retail Price per Roll.	Retail when cut.
24 inches wide.....	\$4.00	\$2.10	1 ¾ c. per running foot.
30 inches wide.....	4.70	2.45	2 c. per running foot.
36 inches wide.....	5.30	2.80	2 1/4 c. per running foot.
48 inches wide.....	6.50	3.42	2 3/4 c. per running foot.
60 inches wide.....	7.70	4.05	3 1/4 c. per running foot.
72 inches wide.....	8.70	4.57	3 3/4 c. per running foot.
84 inches wide.....	9.90	5.20	4 1/4 c. per running foot.

## Steel Web Picket Fence.

Especially for Lawns, Door-Yards, Cemeteries or Parks.

Six cables, 37 inches, standard height. The pickets are made of three No. 12 galvanized steel wires, uniformly spaced 2 ½ inches apart, and held firmly in place by cables 6 ½ inches apart, each made of two No. 12 steel galvanized wires, making a very handsome combination.

In Steel Web Pickets we get a very strong picket by weaving a number of smaller wires together, in which only one-third of the weight of the picket passes through the crimping machine, enabling us to use a much smaller wire for this part of the picket and requires but little to form it, therefore neither affecting the elasticity of the wire nor the galvanizing, but leaving the entire picket strong, tough and elastic.

Standard Fence, Pickets 2 ½ Inches Apart. 6 Strands, 37 in. high. List, per linear foot, 18c. Retail per linear foot, 11c.

Full rolls of Picket Fence 300 feet.

Special heights to order as follows:

4 Strands, 24 in. high. 7 Strands, 43 in. high.

5 Strands, 30 in. high. 8 Strands, 50 in. high.



PRICE, 75c.

No. 1.

## WIRE STRETCHER.



**BUGGY HARNESS.****No. 700—SINGLE BUGGY HARNESS.**

Bridle,  $\frac{5}{8}$  inch; Traces, 1 inch; Saddle,  $2\frac{1}{2}$  inches; Breast Collar and Breeching; single leather; Flat Lines, with Web-hand parts; X-C Mounting. Price, with Collar and Hames, \$8.00; with Breast Collar, \$7.50.

**No. 693—SINGLE BUGGY HARNESS.**

Bridle,  $\frac{5}{8}$  inch; Traces,  $1\frac{1}{2}$  inches; Saddle, 3 inches; with Nickel Hook and Terrets; Breast Collar and Breeching, folded, with straight lay; Flat Lines; X-C Mounting; imitation Hand Stitched. Price, with Collar and Hames, \$11.25; with Breast Collar, \$10.50.

**No. 4—SINGLE BUGGY HARNESS.**

Bridle,  $\frac{5}{8}$  inch; Traces,  $1\frac{1}{2}$  inches; Saddle, 3 inches; Breast Collar and Breeching, folded, with straight lay; Flat Lines; X-C Mounting, with Nickel Hook and Terrets; imitation Hand Stitched. Price, with Collar and Hames, \$12.00; with Breast Collar, \$11.25.

**No. A—HAND-MADE SINGLE BUGGY HARNESS.**

Bridle,  $\frac{5}{8}$  inch; Traces,  $1\frac{1}{2}$  inches; Saddle, 3 inches. Hand Laced, Leather Lined; Breast Collar,  $2\frac{1}{2}$  inches, V-shape, with  $1\frac{1}{2}$  inch Single Leather Traces attached; Breeching,  $1\frac{1}{2}$  inch Single Leather; Flat Lines; full Nickel or imitation Rubber Mounting; Hand Stitched. Price, with Collar and Hames, \$18.25.

**No. 29—DOUBLE BUGGY HARNESS.**

Bridle,  $\frac{5}{8}$  inch; Traces, 1 inch; fancy-bound Pads;  $1\frac{1}{4}$  inch side pieces and folded bellybands; Turnback,  $\frac{3}{4}$  inch; Hip Strap,  $\frac{5}{8}$  inch, with patent leather Drops; Flat Lines; Sheep Collars; X-C Mounting. Price, \$20.25.

**No. 19—DOUBLE BUGGY HARNESS.**

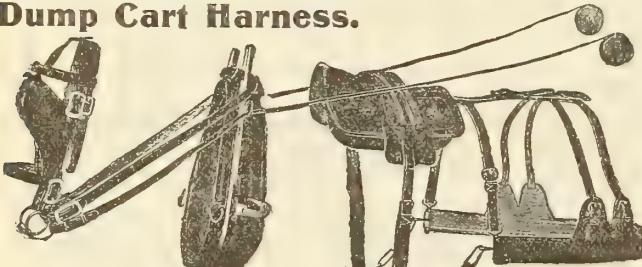
Bridle,  $\frac{5}{8}$  inch; imitation Chain Front; Traces,  $1\frac{1}{2}$  inches; fancy-bound Pads under same;  $1\frac{1}{4}$  inch side pieces and folded Bellybands; Turnback,  $\frac{3}{4}$  inch; no Hip Strap; Flat Lines; Kip Collars, full Nickel or imitation Rubber Mounting; imitation Hand Stitched. Price, \$26.00.

**No. 35—DOUBLE BUGGY HARNESS.**

Bridle,  $\frac{5}{8}$  inch; Traces,  $1\frac{1}{2}$  inches; Plain Pads, with leather Housings under same;  $1\frac{1}{4}$  inch side pieces; folded Bellybands; Turnback,  $\frac{3}{4}$  inch, waved; Flat Lines; Kip Collars; Nickel or imitation Rubber Mounting; imitation Hand Stitched; nicely finished. Price, \$29.50.

**No. 93—SINGLE CARRIAGE HARNESS.**

Bridle,  $\frac{5}{8}$  inch; Traces,  $1\frac{1}{4}$  inches; Saddle,  $3\frac{1}{2}$  inches; Breast Collar and Breeching, folded, with straight lay; Flat Lines; X-C Mounting; imitation Hand Stitched. Price, with Collar and Hames, \$13.50.

**Dump Cart Harness.****No. A—DUMP CART HARNESS.**

Bridle,  $\frac{5}{8}$  in.; Lines,  $\frac{7}{8}$  in.; Breeching, 3 ins.; No. 5 Saddle, leath. cov.; No. 62 iron-bound Hames;  $\frac{7}{8}$ -in. Hame Straps; Tug Chains; Kip Team Collar. Price, \$12.75.

**No. 8.—DUMP CART HARNESS.**

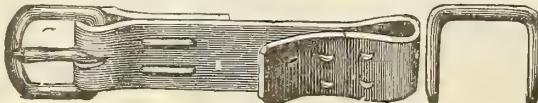
Bridle, No. 218, with Winker Stays; Hames, No. 61, Virginia Hook, with straps; Collar, all Kip Team; Saddle, No. 8, Doubled and Stitched Top, full Pad, leather Girth; Breeching, No. 5, 3-in. Double Body,  $1\frac{1}{2}$ -in. Turnback,  $1\frac{1}{4}$ -in. Double Hip Straps. Price, \$19.00.

**Prices on cheap cart harness on application.**

**EDGERTON LEATHER DRESSING.**

Contains no shellac, copperas or other injurious ingredients. When applied as per directions, will not rub off, but penetrates the leather and is pliant and waterproof. Restores original gloss and finish. Every ingredient a preserver and beautifier of leather.

Rats and mice will not gnaw leather on which this oil is properly used. Price.....\$25c.

**"RAPID" HARNESS MENDER.**

Patented—February 2, 1886; March 27, 1888.  
Price, 25c. per Gross. By Mail, 35c.

**REGULAR**

**CARRIAGE HARNESS.****No. 94—SINGLE CARRIAGE HARNESS.**

Bridle,  $\frac{5}{8}$  inch, Chain Front; Traces,  $1\frac{1}{4}$  inches; Saddle, 4 inches; Breast Collar and Breeching, folded, with straight lay; Flat Lines; Nickel Hook and Terrets, and balance of Mounting X-C; imitation Hand Stitched. Price, with Split Kip, Plain Front Collar, and Hames, \$15.50.

**No. 354—SINGLE CARRIAGE HARNESS.**

Bridle,  $\frac{5}{8}$  inch Front; Traces,  $1\frac{1}{2}$  inches; Saddle, 3 inches; Hand Laced, Leather Lined; Breast Collar and Breeching, folded, with wave lay; Flat Lines; full Nickel or imitation Rubber Mounting; imitation Hand Stitched. Price, with Collar and Hames, \$15.75; with breast Collar, \$14.00.

**No. 20—EXPRESS HARNESS.**

Bridle,  $\frac{5}{8}$  inch; Traces,  $1\frac{1}{2}$  inches; to buckle to Hames or with Heel Chains and attached to Hames; Saddle,  $4\frac{1}{2}$  inches, with Kersey Lining; folded Breeching, with straight lay; double Hip Straps; Brass or Nickel Mounting; imitation Hand Stitched. Price, \$22.75.

**No. 27—EXPRESS HARNESS.**

Bridle,  $\frac{5}{8}$  inch; Traces,  $1\frac{1}{4}$  inches; Saddle, 4 inches; red wood Hames, with X-C Ball Top; folding Breeching, with straight lay; double Hip Straps; X-C Mounting. Price, \$16.00.

**No. 26—EXPRESS HARNESS.**

Bridle,  $\frac{5}{8}$  inch; Traces,  $1\frac{1}{4}$  inches, with Cock Eyes; Saddle, 4 inches, with Kersey Lining; red wood Hames, with Brass Ball Top; folded Breeching, with straight lay; double Hip Straps; Brass Mounting; imitation Hand Stitched. Price, \$19.00.

**No. 10½—DOUBLE WAGON HARNESS.**

Bridle,  $\frac{5}{8}$  inch; Harness Leather Winkers; Ball Top Hames;  $1\frac{1}{2}$  inch Traces, riveted to Hames, with Chain Ends; folded Pad and Breeching;  $\frac{3}{8}$  inch Double Hip Strap; Hog Collars; Flat Lines. Price, \$23.50.

**No. 9—DOUBLE WAGON HARNESS.**

Bridle,  $\frac{5}{8}$  inch; patent leather Winkers; Ball Top Hames;  $1\frac{1}{2}$  inch Traces, riveted to Hames, with Chain Ends; folded Pads and Breeching;  $\frac{3}{8}$  inch double Hip Strap; Kip Collars; Flat Lines; imitation Hand Stitched. Price, \$31.00.

**No. 17—HEAVY DOUBLE WAGON HARNESS.**

Bridle,  $\frac{5}{8}$  inch; patent leather Winkers; Box Loop Checks; Brass Ball Top Hames; 2-inch Traces, riveted to Hames, with Chain Ends; Heavy Pads and Breeching; 1 inch double Hip Strap; Kip Collar; Flat Lines; imitation Hand Stitched. Price, \$40.00.

**HORSEBACK GOODS ON APPLICATION.****TRIUMPH CHAINS.**

Triumph Chains; very light; possess great strength; all links have equal strength. Do not kink; no welds to give way; no sharp edges.

No. 3-0—Triumph Cow Tie (Ohio pattern), ea.,	30c.	4-0...	35
No. 3-0— $4\frac{1}{2}$ ft. Triumph Halter, ea.,	30c.	6 ft...	35
No. 5-0—7 ft. Triumph Trace Chains, pair,	85c.	6-0, 7 ft...	1.00
No. 5-0— $3\frac{1}{2}$ ft. Triumph Butt Chains, pair,	45c.	6-0, $3\frac{1}{2}$ ft.	.50
No. 2—6 ft. Triumph Kennel Chain, each.			.40
No. 1—20 ft. Triumph Tethering Chain, each.			.90
No. 0—20 ft. Triumph Tethering Chain, heavy, each.			1.00
No. 0—30 ft. Triumph Tethering Chain, each.			1.20

**BROWN STEEL COW TIES AND HALTER CHAINS.**

No. 3-0—Brown Steel Cow Ties (Ohio pattern), each...	25c.
No. 4-0—Brown Steel Cow Ties (Ohio pattern), each...	30c.
No. 3-0—Brown Steel Halter Chains, $4\frac{1}{2}$ feet.....	25c.

**SPREADER AND LOG CHAINS.**

Straight Link Slack Spreader, with flat hook and two twist hooks, 5-16 in., \$1.50.  $\frac{3}{8}$  in., \$1.75.

No. 71—Spreader Chains (Penns. pattern), black or self color, stiff, \$2.50.

No. 73—Repair Links, polished, 15c. dozen.

No. 75—Open Side Links, polished, 10c. each.

No. 58—Long Link Log or Ox Chain,  $12x\frac{3}{8}$ , \$1.75.

No. 58—Long Link Log or Ox Chain,  $14x\frac{3}{8}$ , \$2.00.

No. 58—Long Link Log or Ox Chain,  $14x\frac{1}{2}$ , \$2.50.

No. 58—Long Link Log or Ox Chain,  $14x\frac{5}{8}$ , \$3.00.

No. 46—Cart Tug Chains, per pair, 30c.

**BREAST CHAINS.**

Double Stiff, 5-16 pair...\$1.25 Double Slack, pair... .80  
Double Stiff,  $\frac{1}{4}$  pair... 1.20 Single Slack, pair... .60

No. 67—**FIFTH CHAIN**—Round hook, ring and swivel, bright or black, made with stretchers, also if desired.

No. 67, 10x%, with Reg. Hook, \$1.75. No. 68, 10x%, with Patent Hook, \$2.40. No. 1, Pennsylvania Pattern, black, stiff, heavy, \$6.00.

**REGULAR IRON TRACES. (See Border.)**

7, 8, 2, retail price, pair, 50c. 7, 12, 2, retail price, pair, 65c. 7, 10, 2, retail price, pair, 55c. 7, 14, 2, retail price, pair, 75c. 7, 16, 2, retail price, pair, 90c.

**FOR MENDING HARNESS, BELTING, ETC.**

Tom Thumb.....40c.

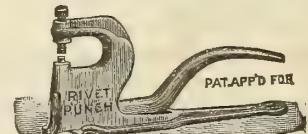
Uncle Sam.....50c.

Plymouth.....50c.

Rivets, box of 50..10c.

Rivets, box of 100..15c.

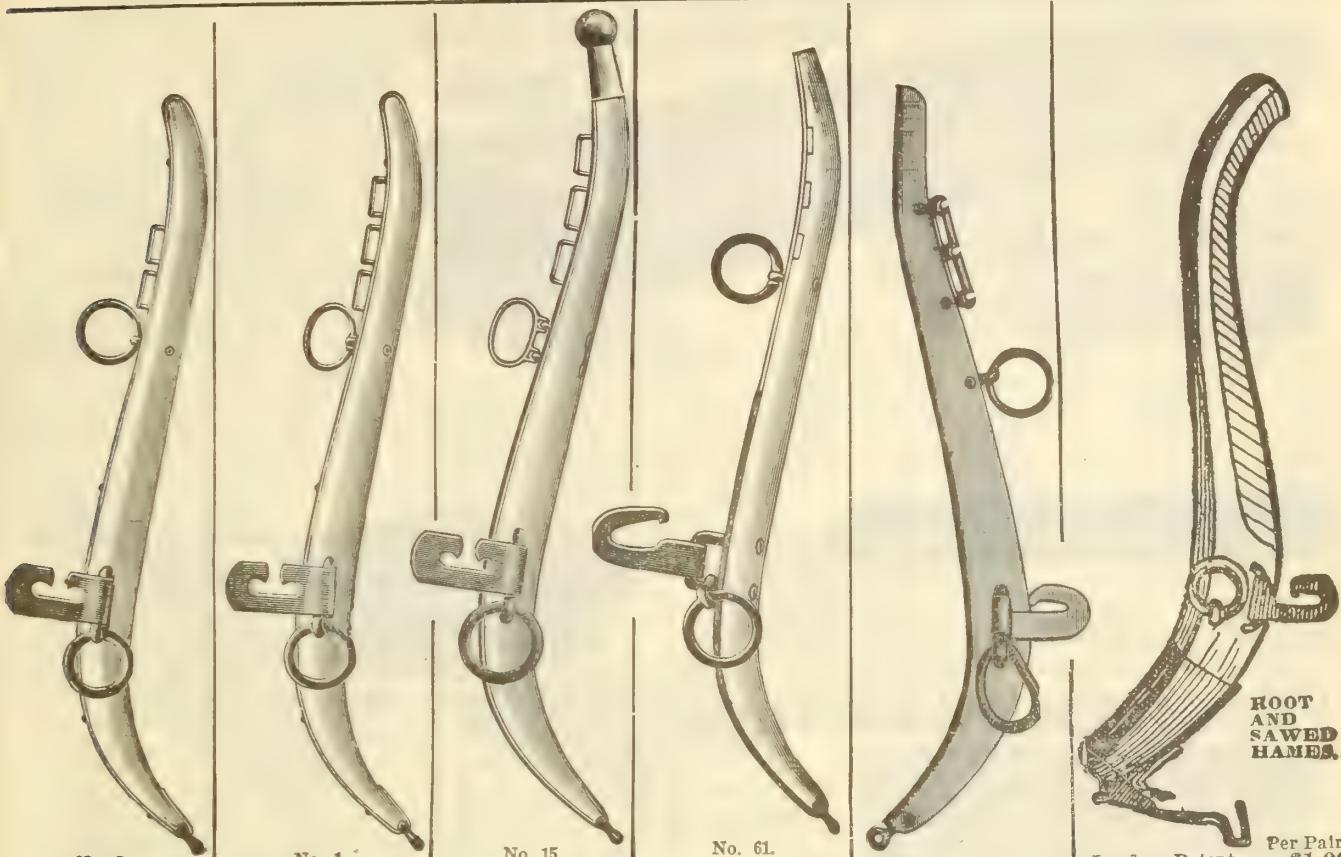
Rivets, four boxes..50c.



**REGULAR**

**IRON**

**TRACES.**



No. 2.

$\frac{1}{4}$ -inch steel backs.  
Two top strap loops.  
One stud line ring.  
Single steel hooks  
and rings.  
Varnished.  
Size, 19 to 20 inches.  
Price.....40c. pair.

No. 1.  
 $\frac{3}{4}$ -inch steel backs.  
Three top strap  
loops.  
One stud malleable  
oval line ring.  
Single steel hooks  
and rings.  
Varnished.  
Size, 19 to 20 inches.  
Price.....50c. pair.

No. 15.  
Rock elm wood.  
 $\frac{3}{4}$ -inch steel backs.  
Three top strap  
loops.  
Two stud line rings.  
Clip staples and  
hold-backs.  
Double steel hooks  
and rings.  
X. C. ball, painted  
red.  
Size, 19 to 21 inches.  
Price.....75c. pair.

No. 61.  
VIRGINIA CART.  
Rock elm or ash wood.  
 $\frac{1}{2}$ -inch stiff bottom  
loops.  
 $\frac{3}{4} \times \frac{1}{4}$ -inch steel backs.  
Three mortise top  
loops.  
Heavy wrought steel  
hooks.  
Varnished.  
Polished irons.  
Size, 19 to 22 inches.  
Price.....80c. pair.

Mocks Steel Hame  
Rust-proof, electro-  
galvanized.  
Non-breakable.  
For heavy work,  
such as contractors  
and lumbermen, etc.  
Price, 19 to 21 in.,  
per pair, \$1.00. 22 to  
24 in., per pair, \$1.10

 ROOT  
AND  
SAWED  
HAMES.

	Per Pair.
Loudon Patent	\$1.00
Loudon Tie	.75
Taylor Root Pat.	.60
Taylor Root Tie	.50
Sawed Patent	.50
Sawed Tie	.30
<b>Special prices to both wholesale and retail dealers.</b>	
<b>HAME STRINGS.</b>	
Black.	
$\frac{3}{4}$ ..12c. each	\$1.25 doz.
$\frac{3}{4}$ ..15c. each	1.50 doz.
Rawhide.	
$\frac{5}{8}$ ..10c. each	\$1.00 doz.

**MODOC FEED BAG.**

Plain wood bottom, overhead rope, with  
patent pocket.

**Our Special Price**.....35c.

**PIONEER FEED BAG.**

Patent pocket, bridle and pulley at-  
tachments. Patent center-grooved wood  
bottoms and leather ventilators.

**Our Special Price**.....\$1.00

**WILLIAMS' FEED BAG.**


Heavy duck, with woven-wire sides. It  
folds into a small space. The best wire-  
ventilated bag made.

**Our Special Price**.....\$1.25


**SWEAT PADS.**  
Felt-Less.

Pinked, Felt Edges, Com-  
posite Filling, Four Hooks.  
Old Gold Drill, best on  
the Market, 50c.

Cheaper Old Gold, 45c.

**BROWN AND WHITE DRILL PADS.**

10-inch.....25c.  
11-inch.....30c.  
12-inch.....35c.

**PLOW BOY BACK  
BAND HOOKS.**

Per pair, 3 $\frac{1}{2}$  in.....10c.  
Per pair, 4 in.....12c.

**HORSE COLLARS.**

No. 56—LIGHT DRAFT.  
Split leather front, duck  
face.  
Price.....85c.

No. 190.

DRAFT COLLARS.  
Split Leather back and rim,  
duck face. Price, \$1.00.

No. 1101.

TEAM COLLARS.  
Heavy. Price.....\$1.25.

No. 136—KIP TEAM.

Sheep faced. Price, \$1.75.

No. 155—SCOTCH KIP.

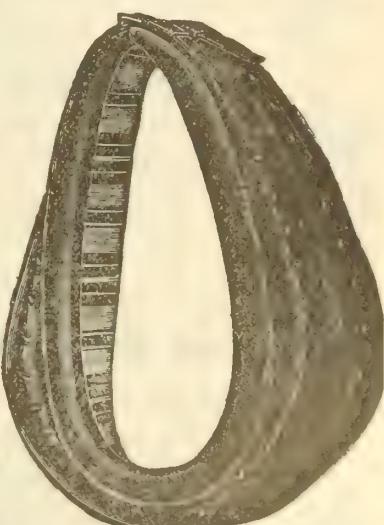
Buck and rim tick faced.

Price.....\$2.50.

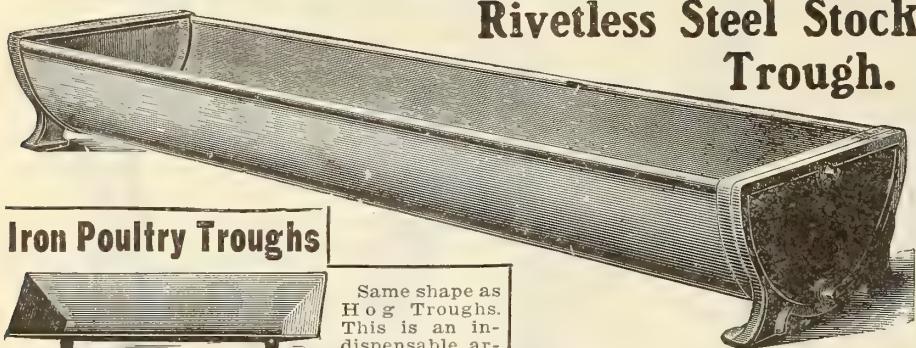
No. 760.

HEAVY KIP TEAM.

Sheep faced. Price, \$2.25.

**FOLDED DUCK BACK  
BANDS.**

**WEB BACK BANDS.**

No. 1-3 $\frac{1}{2}$ in., 42 in. long.....	20c.
No. 1-4 in., 42 in. long.....	25c.
No. 2-3 $\frac{1}{2}$ in., 42 in. long.....	15c.
No. 2-4 in., 42 in. long.....	20c.



### Iron Poultry Troughs



Same shape as Hog Troughs. This is an indispensable article for parties

raising poultry. Is readily cleaned, and no leaking.  
No. 0—8 in. long, 3 1/4 in. wide at top, 1 1/4 in. deep.....**25c.**  
No. 1—20 in. long, 4 in. wide at top, 1 1/2 in. deep.....**40c.**  
No. 2—24 in. long, 7 in. wide at top, 3 in. deep.....**80c.**  
No. 3—29 in. long, 7 in. wide at top, 3 in. deep.....**\$1.00**

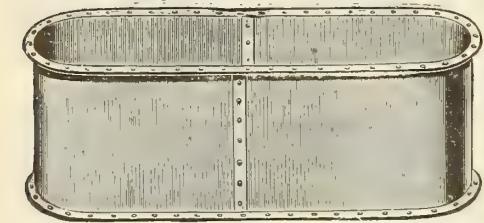


### Iron Hog Troughs

No danger in winter, when frozen full of ice, for them to burst. Twelve inches wide at top, 2 inches wide at bottom, and 6 inches deep. Made in lengths from 2 feet up to 8 feet, every 6 inches. Weight, per foot, 13 lbs. Price, 50c. per foot.

### Oblong Round End Steel Tanks

No. 20.



#### GALVANIZED STEEL.

Carefully Riveted  
Seams.

Every tank carefully inspected before leaving factory, to insure tank being water tight. The dimensions of all tanks are outside measurement. Capacity is estimated by the standard liquid measure of 31 1/2 gallons to the barrel.

No.	Width.	Height.	Length.	Bbls.	Weight.	List Price.	Retail Price.
102	2 ft.	2 ft.	5 ft.	4 3/4	82 lbs.	<b>\$8.70</b>	<b>\$6.95</b>
103	2 ft.	2 ft.	6 ft.	5 3/4	94 lbs.	<b>10.25</b>	<b>8.20</b>
104	2 ft.	2 ft.	7 ft.	6 1/2	106 lbs.	<b>11.25</b>	<b>9.00</b>
105	2 ft.	2 ft.	8 ft.	7 1/2	123 lbs.	<b>12.25</b>	<b>9.80</b>

Larger sizes will be furnished on application.

### Round Steel Tanks.

#### No. 20—GALVANIZED STEEL.

Same as above, only round instead of oblong. Same care taken in manufacture.

No.	Diam.	Height.	Cap'y.	Weight.	List Price.	Ret. Price.
1	3 ft.	2 ft.	3 1/2 bbls.	71 lbs.	<b>\$8.00</b>	<b>\$6.40</b>
2	4 ft.	2 ft.	6 bbls.	91 lbs.	<b>9.50</b>	<b>7.60</b>
3	4 ft.	2 1/2 ft.	7 bbls.	100 lbs.	<b>10.75</b>	<b>8.60</b>
4	4 ft.	3 ft.	9 bbls.	107 lbs.	<b>12.75</b>	<b>10.20</b>
5	4 ft.	4 ft.	12 bbls.	127 lbs.	<b>16.00</b>	<b>12.80</b>

Larger sizes furnished on application.

### Crimped Wire Stall Guards.

2 1/2-inch Diamond Mesh, No. 8 steel wire, with 1-inch channel iron frames. O. G. end, oval-banded top, screw holes bottom and end.

6 feet long, 25 inches high.  
Price, each, \$4.00.  
Special Prices in Quantities.

Can furnish on application  
Square Crimped Wire Stall Guards, used for box stalls.  
Give size wanted. Per square  
foot, 50c. Special prices in  
quantities.



The only Steel Trough constructed without the use of rivets. Will not crack or burst on account of freezing. This trough is made of No. 12 gauge steel, curved in semi-circular form, with ends of cast iron fitted in each end of steel and held in place by steel bands instead of rivets. These bands are shrunk around the end edges of steel, binding it firmly to the flange on the end, thereby making a perfectly water-tight joint.

List. Retail.

No. 79—4 feet long	<b>\$8.30</b>	<b>\$5.00</b>
No. 80—5 feet long	<b>10.35</b>	<b>6.25</b>
No. 81—6 feet long	<b>12.15</b>	<b>7.30</b>
No. 82—8 feet long	<b>15.50</b>	<b>9.35</b>
No. 83—10 feet long	<b>19.50</b>	<b>11.70</b>
No. 84—12 feet long	<b>23.25</b>	<b>14.00</b>
No. 85—14 feet long	<b>25.50</b>	<b>15.35</b>
No. 86—16 feet long	<b>28.60</b>	<b>17.20</b>

Troughs are 18 in. wide, 10 in. deep, hold 8 gal. per foot.

List.

Retail.

89—3 ft. long	<b>.89.25</b>	<b>.55.55</b>
90—4 ft. long	<b>9.25</b>	<b>5.55</b>
91—5 ft. long	<b>11.60</b>	<b>6.95</b>
92—6 ft. long	<b>13.80</b>	<b>8.30</b>

Above Troughs are 20 in. wide, 11 in. deep, hold 10 gal. per ft. Smaller sizes on application.

**Special Discount for Cash.**

### CORNER MANGERS.

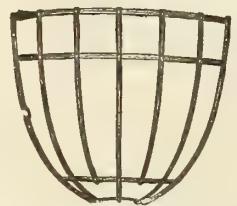
The "Sanitary."

The rim is made of a superior quality of iron. The body of galvanized wrought steel. One of the best mangers in use. The government is using these "Sanitary" Mangers in preference to any other, large quantities being shipped to the Philippines.

No. 2—22 quarts. List, **\$1.75**, Retail, **\$1.50**.  
Special Prices in Quantities.

We also have on hand Cast Iron Mangers, as follows:

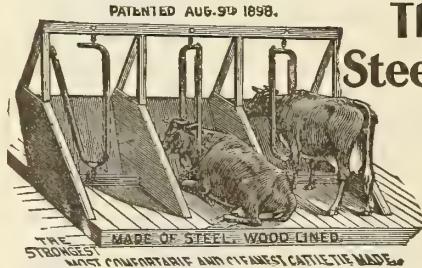
No. 2—17 in. long, 17 in. wide, 10 in. deep, roll front. Price, **\$1.25**.  
No. 1—16 in. long, 16 in. wide, 9 1/2 in. deep, flat front. Price, **\$1.15**.  
Special Prices in Quantities.



### WROUGHT HAY RACKS

Far superior to cast-iron Racks, as frequently used.

Price.....**\$1.75**



### The Taylor Steel Stanchion

*The Strongest Stanchion Made.* Since the frame consists entirely of steel and malleable iron, it is practically indestructible and will last a lifetime.

*Gives Free and Natural Movement of the Head and Neck.* Swing

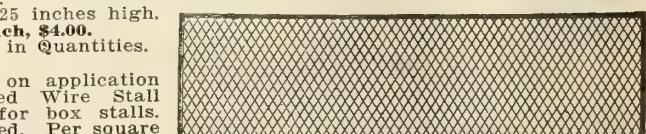
on chains, top and bottom, and gives much more freedom to the cow's head than the old style stiff Stanchion. Practically the cows are as comfortable as when in the field; for they are able to lick their sides and lie down with the head on the shoulder as nature intended.

*No Mortised Corners to Wear Loose.* The corners are formed of solid angle steel, bent to shape, and are as strong, if not stronger, than the straight sides.

*Not Cumbersome About Neck of Cattle.* The angle steel used in the Taylor Stanchion, which is 1 1/4 by 1 1/4 inches wide, is less than one-fourth as large as the wood used in other Stanchions.

*Dimensions of Stall.* For ordinary-sized cattle give each a stall 3 feet wide by 4 feet 6 inches long, floor space. Make gutter along rear of stall of sufficient depth to catch all droppings. A stall so constructed with the Taylor Stanchion insures a larger production of milk.

Price, Style No. 1.....**\$1.50**  
Extra Heavy, No. 2.....**2.00**



No. 183.



All steel, close back, 8 bars, plain knocker lacquered, enameled handle, brass ferrule, oval face, shank running through handle and riveted. Packed one dozen in box. Cases made for 24 dozen.

Price 20c. each, \$2.00 per dozen.

## 8 Bars, Hand Riveted

PATENT APPLIED FOR.

No. 480.



No. 480—Columbia—Lacquered, 25c. each. Packed one dozen in box. Cases are made for 24 dozen.

Price \$2.50 per dozen.

No. 238.

### Cyclone Leather Halters.

One and a quarter-inch, with 1½-in. leather lead.  
Price ..... \$1.35  
No. 242—1¼-inch, with 1¼-inch leather lead.  
Price ..... \$1.25

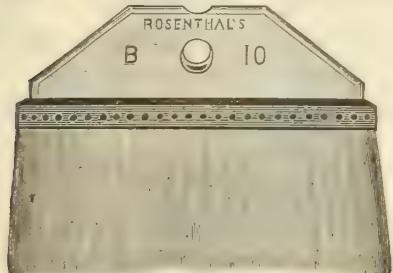
### Rope Cattle Ties.

No. 652—½ in. Manila rope, 8 ft. long, single snap.  
Price ..... 30c.  
No. 655—½ inch XX Sisal rope, 8 ft. long, single snap.  
Price ..... 20c.



No. 238.

## WHITE WASH BRUSHES.



No. 7—Family....	15c.	No. 80—Rose.....	\$1.00
No. 7—Black Buck	30c.	No. 80—Atlantic..	1.25
No. 5—Daisy.....	30c.	No. 44—Super. ex.	1.50
No. 8—Black Buck	40c.	No. 20—Rex.....	1.75
No. 80—Progress..	60c.	No. 30—Rex.....	2.25
No. 8—Eclipse....	90c.	No. 14—Extra fine.	2.50

No. 490.

EIGHT BARS. EXTRA HEAVY.  
All steel shank runs through handle and is riveted.  
Price 25c. each, \$2.50 per dozen.  
Packed one dozen in box. Cases are made for 24 dozen.

### All Steel, Close Back.

No. 800.



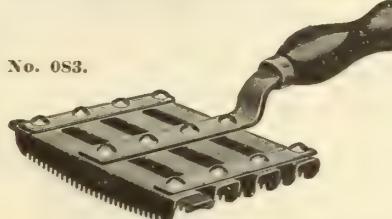
All steel, close back, lacquered, extra size, oval face, curved knockers, braced shank extending through handle and riveted, enameled handle, brass ferrule, 8 bars.

Packed one dozen in a box. Cases made for 24 dozen.

Price 25c. each, 5 for \$1.00.

### All Steel, Open Back.

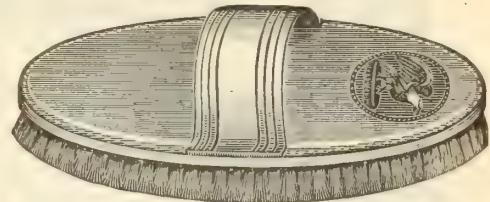
No. 083.



All steel, open back, 8 bars, plain knocker, japanned, carmine handle, steel ferrule, oval face, shank running through handle and riveted. Packed one dozen in box. Cases made for 24 dozen.

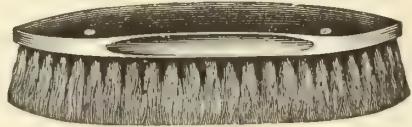
Each, 15c., \$1.50 per dozen.

## LEATHER BACK BRUSHES



No. 133—Patent Leather Back, each.....	\$ .40
No. 333—Yellow Leather Back, each.....	.50
No. 50—Yellow Leather Back, each.....	.60
No. 443—Russet Leather, Flexible Back, Army, each.....	1.00
No. 226—All Bristle, Russet Leather, Flexible Back, Army, each.....	1.25
No. 225—All Bristle, Leather, Flexible Back, each.....	1.50
No. 442—Warranted all white bristle, ea..	2.00

## Dandy Brushes.



No. XX—Palmetto Dandy, each.....	.40
No. 4—Palmetto Dandy, each.....	.20
No. 805—Palmetto Dandy, each.....	.25

## ADJUSTABLE WEB HALTERS, No. 699

Continuous piece, solid color, No. 1 extra quality web, folded through metal corners, adjustable buckle. Leather chin piece with buckle. Rope lead, leather latch, snap. Price .....

### No. 1 WEB HALTERS.

Continuous piece No. 1 Web through metal corners. Leather chin piece. Rope Lead, leather latch, with snap. Price .....

### ROPE HORSE TIES.

No. 652—Half-inch Manila, 10 ft. long (2 snaps). Price 35c.  
No. 667—Half-in. XX Sisal, 10 ft. long (2 snaps). Price 25c.

## SO-BOS-SO

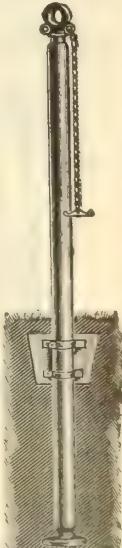
(Kilfly) is a liquid mixture designed to protect cows and horses from torture of flies.

The preparation is positively harmless. It is used with splendid results as a disinfectant and germicide. If your animals are troubled with lice, use SO-BOS-SO (Kilfly). Spray your poultry house with So-Bos-So (Kilfly). It kills lice or any vermin that may infect the fowls. Put up in 1 gallon cans. Price, 75c. per gallon.



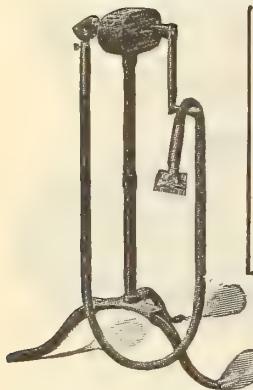
## TOUGH ON FLIES.

One application instantly and positively relieves horses and cattle from all annoyance from green heads, the dreaded Texas heel fly, as well as other flies, gnats and insects of every description for at least 24 hours. It improves the animal and abolishes the use of fly nets. Price: Quart, 50c. Half Gallon, 90c. Gallon, \$1.50.



### Hitching Post.

Cannot be broken or pulled out. Made of tubular steel, thoroughly painted. Anchored at top and at ground level. These posts furnished with Weldless Steel Chain and Spring Snap complete. Price \$1.75



## Hand-Power Horse Clipping and Sheep Shearing Machines

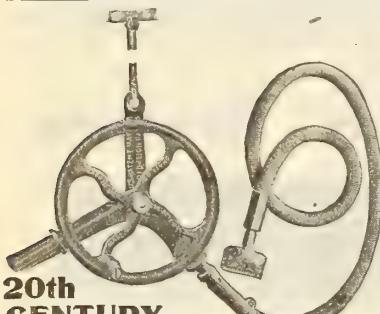
Progressive, up-to-date farmers and horse owners everywhere recognize the advantages of clipping horses. Clipped horses feel better, look better, work better, and are less liable to take cold. Horse Clipping Machines are now made so well and are sold so low that no stable is complete without one.

### Stewart No. 1 Enclosed

### Type Clipping Machine

LATEST MODEL.

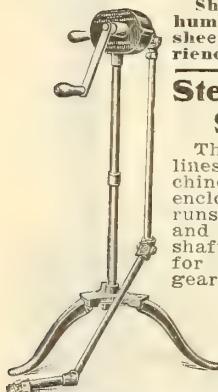
Has new style rigid base; tubular upright. All gears are cut from solid metal and are enclosed in a dust-proof metal box. They run constantly in a bath of oil, which reduces friction to a minimum. All wearing parts are hardened tool steel. New type, light, easy running, flexible shaft, 6 feet long. Complete, with one set of Stewart one-nut tension knives. Weight, boxed, 36 lbs. Price, each, \$6.75.



### 20th CENTURY CLIPPING MACHINE.

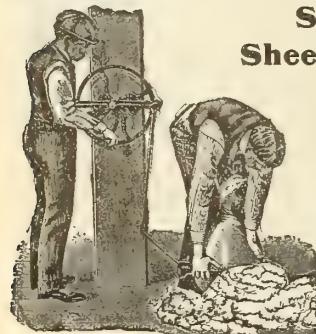
Has 12-in. positive gear drive; steel flexible shaft 4½ ft. long. Complete with one set of Stewart one-nut tension knives. Weight, 15 lbs.; boxed, 20 lbs. Price, each, \$5.00.

**Shearing sheep by machine is profitable and humane. It saves  $\frac{1}{2}$  to 2 lbs. wool on every sheep, and they are not cut or hacked. Experience is not required to operate the machine.**



### Stewart No. 8 Enclosed Gear Sheep Shearing Machine.

This Shearing Machine is built on the same lines as the Stewart No. 1 Horse Clipping Machine. The gearing is all of cut steel and is enclosed in a dust-proof metal case, where it runs constantly in oil, thus reducing friction and wear to a minimum. The solid jointed shaft, which is the only type of shaft suitable for sheep shearing, is fitted directly to the gearing. Each machine is supplied with the latest and most improved shearing handle and four knives. The machine turns easily, shears fast and gets more wool from a sheep than it is possible to get by hand shears. Weight, boxed, 40 lbs. Price, complete, with 4 sets of knives, \$9.75.



### Stewart New Model Sheep Shearing Machine.

Has positive cut gear drive wheel, mounted on iron frame. The large gear engages the hardened tool steel pinion which connects with the universal joint flexible shaft having the balance tension knife and handle attached. All wearing parts are made from tool steel and hardened.

Weight, 52 lbs.; boxed, 70 lbs.

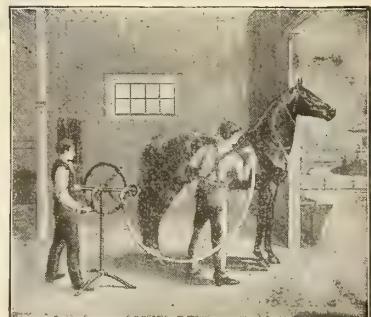
Complete, with 4 combs and 4 cutters, each... \$12.75

Extra top plates..... .50

Extra bottom plates..... .50

### 1902 Chicago Clipping Machine

STEWART PATENT.



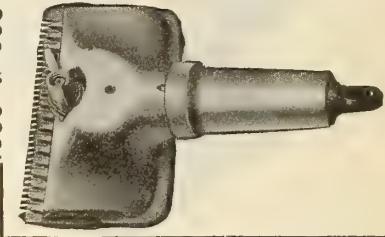
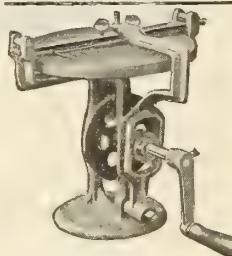
Has positive power; rigid base; fine, strong crank handle; 6½-foot flexible steel shaft. All gears are cut from solid metal, and wearing parts all tool steel, hardened. Can be turned with either right or left hand. Complete with one set of Stewart one-nut tension knives in case. Weight, boxed, 56 lbs. Price, each, \$10.75.

ALL THESE CLIPPING MACHINES ARE FITTED WITH THE STEWART ONE-NUT TENSION KNIFE.

It is impossible for it to get out of adjustment.

#### PRICE OF PARTS.

Knife and Handle	\$3.50
Top Plates	.00
Bottom Plates	.00
Shaft and Chain, per foot	.75
Shaft, less Chain, per foot	.50
Chain	.30
Handles only	1.00



### The Automatic Shearing Knife Grinder.

Sharpens a sheep shearing knife in a few seconds good as new. No skill required; it is automatic.

This Grinder is for sheep shearing knives only. Weight, boxed, 36 lbs. Price, \$6.00.

### The Keystone Dehorning Clip.

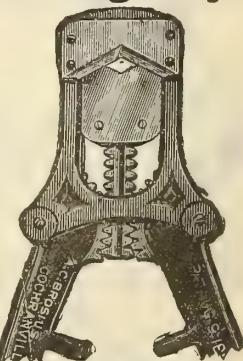
The practice of dehorning cattle is coming more and more into vogue. It is a mercy to the animals. Prevents goring. Does not crush the horns. No twisting motion or second cut on horn. Parts are all interchangeable, and can be replaced at any time. It is approved by veterinary surgeons and leading dairymen. The horns must go, and they cannot go too soon.

#### PRICE.

Clipper, with leader and rope, extra blades and screw, fully warranted, \$12.00. Clipper alone, \$10.00.

We furnish a cheaper clipper than the above that is superior to any of the cheap clippers made, but do not recommend it as broadly as the Keystone, which has no equal.

Price, \$8.00.



### Perfection Calf Dehorner.



#### ANYONE CAN OPERATE IT.

#### Price List.

Perfection Calf Dehorners, including sample box of Perfection Cream and full instructions for operating, etc.

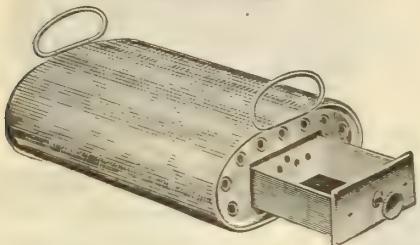
Net, Plain	\$3.50
Net, Nickelplated	5.00

Perfection Cream, per pound..... .50

Discount on five pound orders.

## Clark's Carriage Heaters.

No. 5 B.



**Strong, Ornamental, Convenient. Cannot be crushed or bent.**

PRICES.

**No. 5 B**—Clark Heater, 12 inches long, otherwise same as the 3 D, except carpet is not braid bound. Weight 4 pounds. Price \$2.00.  
**No. 5**—12 inches long, white metal ends, not covered, \$1.75.

No. 3 D.



**No. 3 D**—Clark Heater, 14 inches long, sheet metal case, stamped white metal ends, covering of braid-bound Brussels carpet. Weight 7 pounds. Price \$2.75.

No. 7 D.



**No. 7 D**—Clark Heater, 14 inches long, nickel-plated steel ends, heavily reinforced, covered with Brussels carpet, slanting top, adjustable side and end ventilators. Can be regulated so as to increase or diminish the heat or entirely stop combustion and save coal for future use. Weight 7 pounds. Price \$3.00.

No. 1.



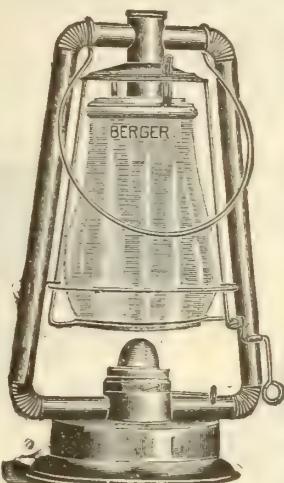
**No. 1**—Clark Heater, 14 inches long, ends of heavy cast metal, nicely polished and nickel plated. Is made extra strong and heavy and cannot be crushed or even bent. It is covered with royal velvet carpet, underneath which is a special asbestos packing, which makes scorching of carpet impossible. Weight about 10 pounds. Price \$3.50.

## CAKE OF PREPARED COAL.



One cake will last 15 to 16 hours. No smoke, odor, flame or gas. Price, case of 1 dozen cakes, 75c.

## Berger's Side and Bail Lift No. 0 Tubular Lanterns.



Patented One-piece Crimped Tubes.

**No. 1 Burner**,  $\frac{5}{8}$ -inch Wick, No. 0 Globe, Lock Burner, Simplicity Side Lift, Retinned and Tested Founts. Especially designed for severe usage, and is used principally in mills, barns, warehouses, lumber yards, freight houses, etc.

Price, 50c.

### DASHBOARD.

Furnished in Bull's - Eye Globes, No. 1 Burner,  $\frac{5}{8}$ -inch Wick, No. 0 Globe, Lock Burner, Improved Catch. Finished in plain or blued tin. Patented one-piece crimped tubes. Price 75c.

Hood Reflector Dashboard Lantern. Price \$1.25.

### BERGER'S COLD BLAST LANTERNS.

A veritable stream of clear, white, smokeless light, resulting from perfect combustion, which light the fiercest gales cannot blow out or "fiercest" roads jolt out. Price 85c.

## ROTO SALT FEEDER.

The universal sale of refined compressed salt for horses and cattle proves that this is the accepted way of feeding salt. It is now only a question of the best shaped salt cake and the best style of feeder.



## ROTO Salt Cake.

Nothing is better than the best, and the best is only good enough.

**ROTO Salt Cakes** are manufactured by subjecting pure refined salt to tremendous hydraulic pressure; this renders them hard as marble, consequently very lasting.

**ROTO Salt Cakes** are cylindrical; no corners to chip or break from handling.

The force of the above propositions is in the common sense they contain.

The factory has been furnishing these goods to the following, and have testimonials from them:

Wm. A. Attfield, D.V.S., 282 Bergen street, Brooklyn, N. Y.  
Board of Aldermen, New York.  
Uffenheimer & Baumann News Co., 223 Wilham St., New York.  
E. A. Whitehouse & Co., 124 Chambers St., New York.

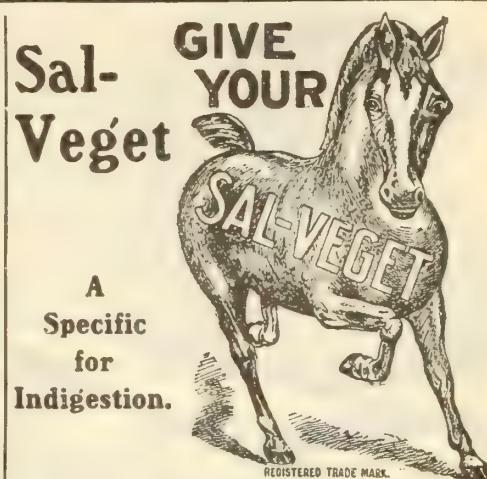
Wm. T. Allen Boarding and Livery Stables, 18 to 26 Bainbridge St., Brooklyn, N. Y.

Price Salt Cake, each, 25c.

Is sanitary. Does not foul. Can be cleaned by merely wiping with a damp sponge or cloth. Has no corners to collect dirt, disease or filth. A square corner can never be absolutely cleansed. No waste; observe construction—the salt can only be licked from the bottom of the feeder; superfluous moisture is gone at once; the salt cake is not softened and wasted. Minimum surface of salt exposed to dust or dampness; no crumbling, no waste, no chance for animal to eject salt cake from the feeder. Every advantage and not a fault. We illustrate the feeder; study its points; no argument is needed.

Made of stoneware of a special composition.

Price, Feeders, each, 35c.



REGISTERED TRADE MARK.

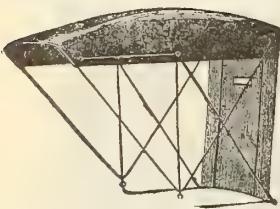
**SAL-VEGET** reliably stimulates the process of digestion and assimilation of food, prevents fermentation, and has a gentle yet positive effect upon the whole digestive and assimilative apparatus, and is, therefore, a remedy which must give energy and strength and restore enfeebled and exhausted animals to their natural condition; the muscles become plump and the subcutaneous fat fills out the wrinkled skin.

**SAL-VEGET** has stood the test of time and experience. When indicated it has proven entirely trustworthy. Being absolutely uniform in purity and therapeutic power, it can always be relied upon to produce satisfactory results.

**SAL-VEGET** should be given: For a Ravenous Appetite, Offensive and High Colored Urine, Worms, Skin Eruptions, Offensive Smelling and Loose Bowels, Sour and Fetid Breath, Droopishness and Sluggishness, Colic Symptoms, Hide Bound and Rough Appearance.

**Dose.**—Two tablespoonfuls once a day on moistened oats or mixed food.

1 1/4 lb. can, 25c. 5 lb. can, \$1.00.  
25 lb. can, \$3.50. 100 lbs. in cans, \$13.00



## BUGGY TOPS.

**Drill Top**, lined with nice union cloth. Tubular sockets and second growth bows, wrought rail and joints, stitched front vallance, does not show nails or tacks. Will keep in shape. Side **Curtains are included**, making top complete. List, \$15.00. Retail, \$8.50.

**Rubber Top**, cloth-lined, tubular sockets and second growth bows, wrought rail and joints, stitched front vallance, no nails or tacks exposed. Will keep shape for years. Complete with side curtains. List, \$17.00. Retail, \$9.50.

### AUTOMOBILE TOPS.

Automobile Tops for any style machine. In ordering, send name of machine and year.

Prices on Application.

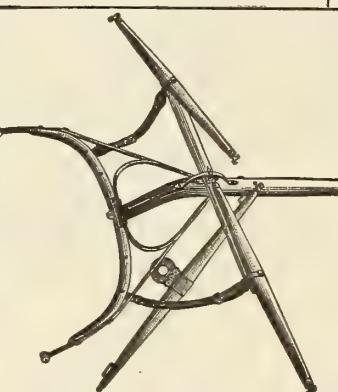
## SHAFTS.



Ironed, complete, painted, for Buggies, List, \$6.50. Retail, \$3.75.  
Ironed complete, painted for Dayton's and Surries. List, \$8.00. Retail, \$4.50.  
Ironed, complete, painted for Dayton's and Surries, heavy. List, \$8.50. Retail, \$4.75.

## "Balto." Ironed Carriage Pole.

Is well ironed with wrought iron tees; double or single hammar strap; heavy drop-forged stay irons. In every way suitable for medium grade work. Prices are for Pole complete, which includes neck yoke, double and single trees and check straps.  
Ironed, complete, painted. List, \$10.00. Retail, \$6.00.



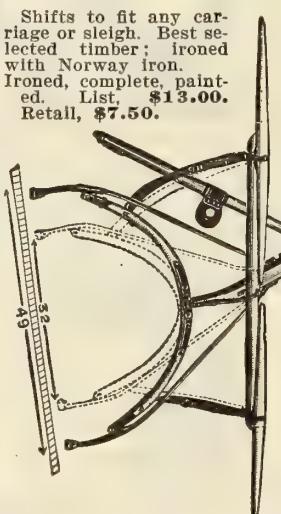
### PLAIN DRILL WAGON CUSHION.



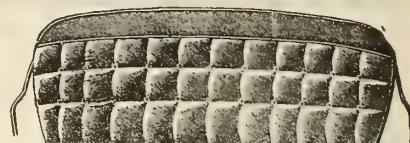
List.....\$1.50 Retail....\$1.00

### No. 1 PATENTED SHIFTING OR ADJUSTABLE POLE.

Shifts to fit any carriage or sleigh. Best selected timber; ironed with Norway iron.  
Ironed, complete, painted. List, \$13.00. Retail, \$7.50.



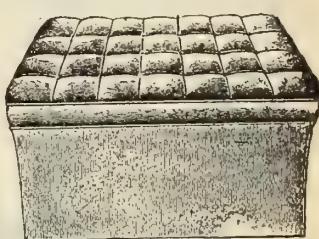
### CORDED BACK.



List.. \$4.30

Retail.. \$2.75

### Corded Cloth Cushion. WITH FALL.



**NICELY MADE.**—In ordering Cushions give number, size of bottom of seat inside, size of fall at top and bottom and depth from top of sill, or enclose paper pattern.

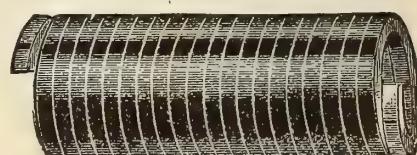
In ordering Backs give exact measurement of seat at top of rim, from out to out, or if seat is ready ironed up with back board in position, send paper pattern of the exact size and shape of back wanted.

List.....\$4.30 Retail....\$2.75

### SOLID CUT AXLE WASHERS.

5 Sets in a Box.
3/4 inch, per box..... 20c.
5/8 inch, per box..... 20c.
1 inch, per box..... 25c.
1 1/8 inches, per box..... 25c.
1 1/4 inches, per box..... 30c.

### COIL AXLE WASHERS.



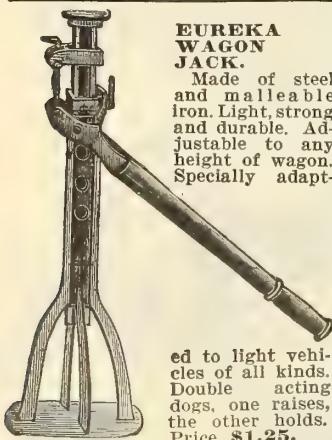
100 Washers in a box.

3/8 inch, per box..20c. 1 inch, per box..20c.

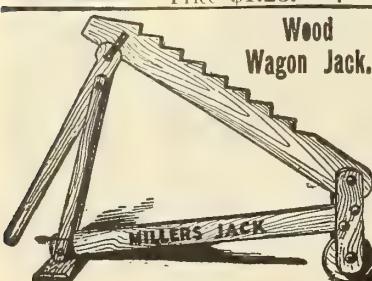
**North Patent Adjustable Bolster Springs.**  
Shows Center Spring in Position for Light Load.



## IMPROVED SAMPSON JACK,



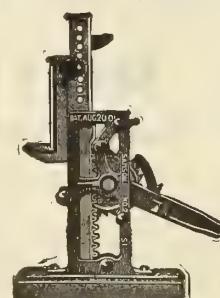
ed to light vehicles of all kinds. Double acting dogs, one raises, the other holds. Price \$1.25.



### Wood Wagon Jack.

No. 1—Adapted for buggies or light work. Capacity, 2000 lbs....\$1.00  
No. 2—for heavy wagons, transfer wagons, trucks, etc. Capacity from 3000 to 5000 lbs. \$1.25.

No. 3.....\$1.75  
We also have a cheap Jack, very simple in construction, but one which is easily handled, and which is all right for light work. Price 50c.



### BUGGY WHEELS, FINISHED.

Buggy Wheels, per set.....List, \$22.00 Retail, \$13.00  
Dayton " " ".....List, 26.00 Retail, 15.00

### The Common Sense Bolster Spring.

Wagon will last longer, will carry load in much better condition, particularly fruit or produce.  
To carry 1000 lbs....\$5.00 To carry 3000 lbs....\$7.50  
To carry 1500 lbs....6.00 To carry 4000 lbs....8.00  
To carry 2000 lbs....6.50 To carry 5000 lbs....9.00  
To carry 2500 lbs....7.00 To carry 6000 lbs....11.00

**Special Discount for Cash.**



To carry 1000 lbs....Per set, \$5.00	To carry 3000 lbs....Per set, \$7.50
To carry 1500 lbs....Per set, 5.50	To carry 4000 lbs....Per set, 8.00
To carry 2000 lbs....Per set, 6.00	To carry 5000 lbs....Per set, 9.00
To carry 2500 lbs....Per set, 7.00	To carry 6000 lbs....Per set, 11.00



## ADJUSTABLE STORM FRONT.

**Is strictly adjustable.** One size will fit any piano-box buggy. One size fits all Phaetons, Stanhopes, etc.

The material is Calendered Rubber Cloth, strong and durable. The window is 12x20 inches, made of fine celluloid, as transparent as any window glass, which can be bent or rolled up without the least danger of breaking.

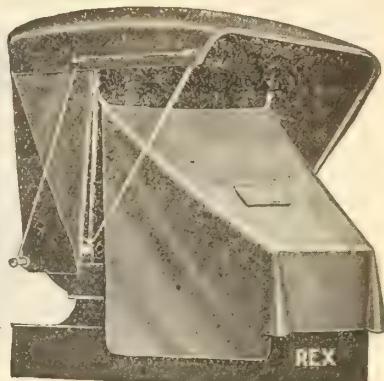
The line hole is 14 inches long, has a light metal edge, so the reins cannot tear out or sag the cloth. It has a broad flap that prevents the entrance of water, wind or snow.

### BUGGY SIZE.

No. 4—Black Rubber, 28 ounces.....	\$3.50
No. 5—Black Rubber, 22 ounces.....	3.00

### PHAETON AND STANHOPE SIZE.

No. 134—Black Rubber Cloth, 28 ounces....	\$4.00
No. 135—Black Rubber Cloth, 28 ounces....	3.50



## ADJUSTABLE STORM APRONS.

These Aprons are made of the best quality rubber cloth. They are fastened to the dash by two steel clamps shaped like clothespins. All Aprons, except No. 45, are 50 inches from dash to straps, and 72 inches from side to side. No. 45 is 50 inches from dash to strap, and 60 inches from side to side.

No. 53—Melodian Rubber Cloth,  
28 ounces, each..... \$1.65

No. 54—Black Rubber Cloth, 28  
ounces, each..... 1.50

No. 55—Black Rubber Cloth, 22  
ounces, each..... 1.25

No. 45—Black Rubber Cloth, 22  
ounces, each..... 1.15



## DUST HOOD.

### NO MEASURING REQUIRED.

This 1905 model will fit any buggy top from 36 to 44 inches wide, and it looks better than a made-to-order hood.

The objection to most hoods is the wrinkles and puckering. All this has been done away with.

No. 6—Black Rubber, 22 ounces..... \$1.25

## KITCHEN APRON.

Used by housewives when washing dishes, baking or doing any ordinary work in the kitchen.

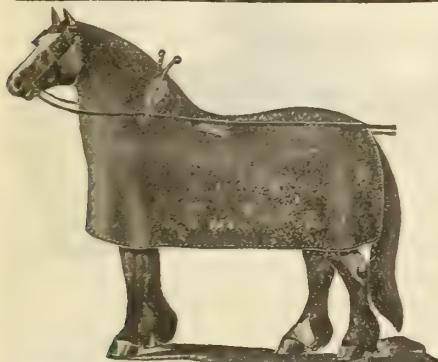
This Apron is water and grease proof, and protects the dress from water, grease, etc.

Size, 36x45 inches, complete with strings.

No. 105—Black Rubber, .75c.

No. 106—White Rubber, \$1.25

If wanted by mail, add 15c. for postage.



## BROWN DUCK HORSE COVERS.

(WATERPROOF.)

All covers have large hame leathers; line rings riveted on hame leathers; snap and rings at trace; strap and buckles at breast; line pocket at saddle, and can be used for double or single team. Two sizes: 5 feet and 5 feet 4 inches.

### PRICE:

No. 84—Each, to Neck..... \$3.00

No. 88—Each, to Head..... 3.50

## RUBBER HORSE COVER.

These covers are all made of high-grade Melodian Rubber Cloth, 28 ounces. All covers have strong black web and patent tongueless buckles at sides and front.

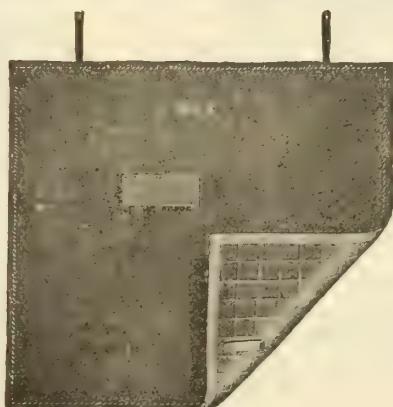
**Two sizes—**4 feet 8 inches, and 8 feet.

### PRICES:

Each.

No. 94—Cover to neck, Rubber Drill... \$3.25

No. 98—Cover to head, Rubber..... 4.00



## Rubber Blanket Aprons.

This is a Combination Rain Apron and Blanket Robe. The outside is Melodian Rubber Cloth and the inside is a heavy blanket lining and strictly waterproof.

Fits any size dash, and is fastened to the dash with two steel clamps, and is complete with straps and line pocket.

All robes are 50 ins. from dash to strap.

No. 17—54 inches from side to side... \$2.00

No. 18—60 inches from side to side... 2.50

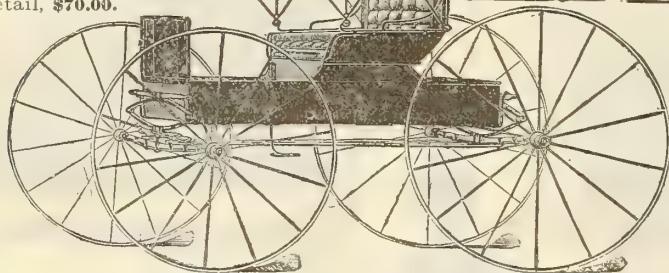


## WASH APRON

This Apron is made of heavy waterproof Duck, and is strictly waterproof; it is used by liverymen, butchers, laundries, creameries, packing-houses, etc.

No. 163—Size 36x48..... \$1.25

Rubber Top, List, \$95.00. Retail, \$52.50.  
 Leather Quarter, List, \$100.00. Retail, \$55.00.  
 Leather Top and Rubber Sides: List, \$110.00. Retail, \$60.00.  
 Full Leather Top, List, \$120.00. Retail, \$70.00.



### Baltimore Three-Leaf Elliptic, End Spring Buggy.

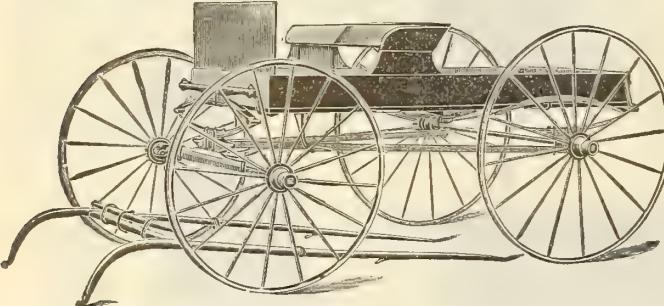
Furnished in wood crossbars or Bailey Loop Hanger. Gear painted any color desired—black, green and carmine in stock. Axles,  $\frac{3}{4}$ -inch double collar steel; Warner or Sarven wheels, No. 1 quality,  $\frac{3}{4}$  or  $\frac{7}{8}$ -inch tread; tire bolted between every spoke; body 22 in. wide, seat regular width. Trimmed in leather.

### STUDEBAKER WORLD BUGGY.

No. 805—Axles drop pattern, 15-16 in. Wheels Sarven, screwed rims, 40 and 44 in. high. Body 22x54-in. bottom, panel seat, solid back. Body black, gear dark green or carmine. Leather quarter and stay. List price, \$105.00; Retail price, \$65.00.

We frequently have special styles of Buggies and Road Wagons that are not Catalogued, on which we could make attractive prices. Write us for styles and quotations.

### THREE-SPRING DELIVERY WAGON.



Axle,  $1\frac{1}{2}$  in.;  $1\frac{1}{4}$  in. steel tire; body, 7 ft. long, 3 ft. wide, 9 in. deep. Drop end gate. Capacity, 1000 lbs. Price, without Top or Brake, List, \$77.50. Retail, \$47.50. With Top, List, \$122.50. Retail, \$72.50. Brake, List, \$5.00. Retail, \$3.00 extra.

Axle, 1 in.; 1 in. steel tire; body, 6 ft. 6 in. long, 3 ft. wide, 9 in. deep. Drop end gate. Capacity, 600 to 800 lbs. Seat with cushion. Price, without Top or Brake, List, \$73.50. Retail, \$45.00. With Top, List, \$118.50. Retail, \$70.00. Brake, List, \$5.00. Retail, \$3.00 extra. All wheels dipped in boiling oil.

### DUPLEX SPRING WAGON.

Axle,  $1\frac{1}{2}$  in.;  $1\frac{1}{4}$  in. steel tire; body, 7 ft. long, 3 ft. wide, 9 in. high. Drop end gate. Capacity, 1000 lbs. Price without Top or Brake, List, \$73.50. Retail, \$45.00. With Top, List, \$118.50. Retail, \$70.00.

Axle, 1 in.; 1 in. steel tire; body, 6 ft. 6 in. long, 3 ft. wide, 9 in. high. Drop end gate. Capacity, 600 to 800 lbs. One seat with cushion. Wheels dipped in boiling oil. Price without Top or Brake, List, \$69.50. Retail, \$42.50. With Top, List, \$114.50. Retail, \$67.50. Brake extra, List, \$5.00. Retail, \$3.00.

### AXLE GREASE AND OILS.

Per box—Atlas.....	\$ .05	15 lbs., in pails—Atlas..	.65
10-lb. buckets—Atlas.....	.55	25 lbs., in pails—Atlas..	.80
Mica and Shining Light, 10-lb. pails.....	.75		
Mica and Shining Light, 15-lb. pails.....	1.00		
Mica and Shining Light, 25-lb. pails.....	1.25		
Mica and Shining Light in tin boxes, per box, Sc.; 3 for 20c.			

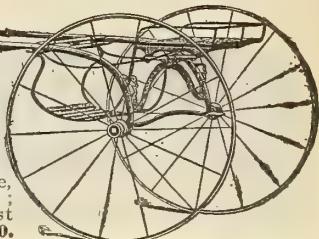
We are headquarters for a full line of lubricating oils.

### SPECIAL PRICES IN BARREL AND HALF-BARREL LOTS.

Imperial or Boston Coach Oil, per gallon.....	\$1.00
Imitation Castor Oil, per gallon.....	1.00
Mineral Castor Oil, per gallon.....	.60
Royal Harness Oil, per gallon.....	.75
Gasoline Machine Oil, per gallon.....	.50
Neatsfoot Oil, per gallon.....	1.00
Gasoline Machine Oil, 10-gallon can, per gallon.....	.40

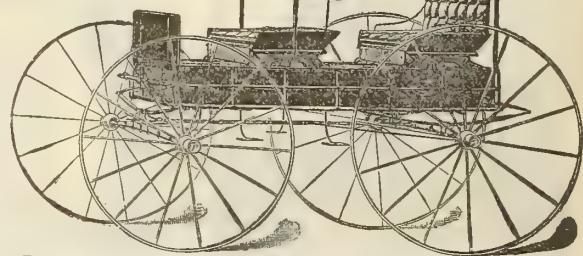
SPECIAL PRICES BY LARGER QUANTITIES OR BARRELS.

## FARMERS' Favorite Road Cart No. 39



Sarven wheels, 1-in. axle, semi-elliptic springs; painted dark wine. List price, \$27.00. Retail, \$15.50.

## No. 4 DAYTON.

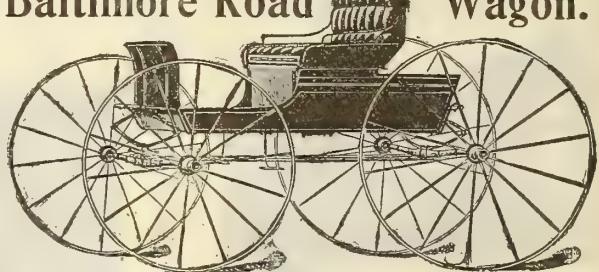


Length of body, 5 ft. 10 in., width, 2 ft. 10  $\frac{1}{2}$  in., frame and seats best white ash; panels best No. 1 poplar; wheels, 3 ft. 9 in. and 3 ft. 5 in. high; 1 1-16 in. spoke; Warner or shell band; 1  $\frac{1}{4}$  in. steel tire; 1 1-16 in. steel axle, front spring 1  $\frac{1}{4}$  in. 4-ply; two back springs 1  $\frac{1}{4}$  in., 4-ply, oil tempered; gear best white hickory; curtains 24 oz.; green back, gum; finished natural wood or painted as desired; hung on Brewster springs.

PRICE:  
 List ..... \$110.00  
 Retail ..... 60.00

Can also furnish in duplex or side bar at same price.

## Baltimore Road Wagon.



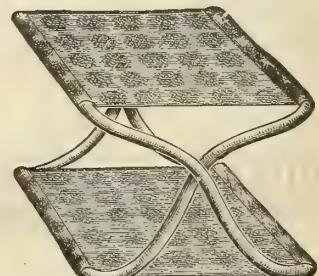
Wheels, Sarven patent;  $\frac{3}{8}$  tread, with round edge steel tire. Gear, fantail and swedged; three-leaf 34-in. spring; axles bedded and reaches ironed. Body, size, 49x24 in. on bottom; round corners and concave seat risers; steel body loops. Seat, size, 16x27 in., with detachable panel back. Trimmings, leather dash; carpet in bottom; cushion and back green cloth or imitation leather. Painting, body, black; gear, Brewster green. List, \$66.00. Retail, \$37.50.

## No. 3 Driving Wagon.

Wheels, ex. selected hickory; Sarven patent or compressed band;  $\frac{3}{8}$ -in. round edge steel tire, bolted at every spoke. Gear double collar, fantail and swedged 36-in. 4-leaf graded steel springs. Body, ash sills and poplar panels; size, 24x54 in.; full length steel body loops; wrought steps, with rubber pads. Seat, size of bottom, 17x28 in., polished beveled edge back. Trimmings, leather dash; full-length tapestry carpet; cushion and back, whipcord or leather; leather extra. Painting, body, black; gear, Brewster green or carmine.

PRICE:  
 List ..... \$95.00  
 Retail ..... 55.00

## I. D. SEAT.



Three can ride as comfortably as two. Carpet top and bottom. No injury to cushion.

PRICE ..... \$1.00

# Griffith & Turner One-Horse Wagons.

ARE THE BEST ON THE MARKET FOR THE MONEY.

One-Horse Wagon, without Brake.  
List, \$58.00; Retail, \$35.00.

One-Horse Wagon, with Gear Brake.  
List, \$64.00; Retail, \$38.00.

One-Horse Wagon, gear only, without Brake. List, \$48.00; Retail, \$29.00.

One-Horse Wagon, gear only, with Brake. List, \$54.00; Retail, \$32.50.

**Special Discount for Cash.**

## ONE-HORSE WAGON No. 40.

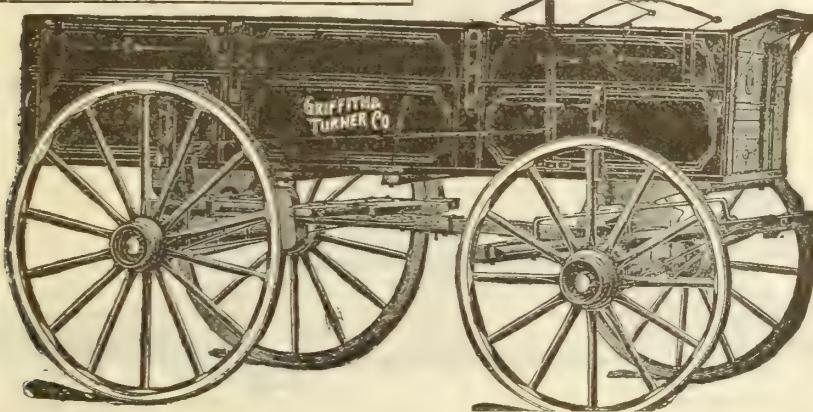
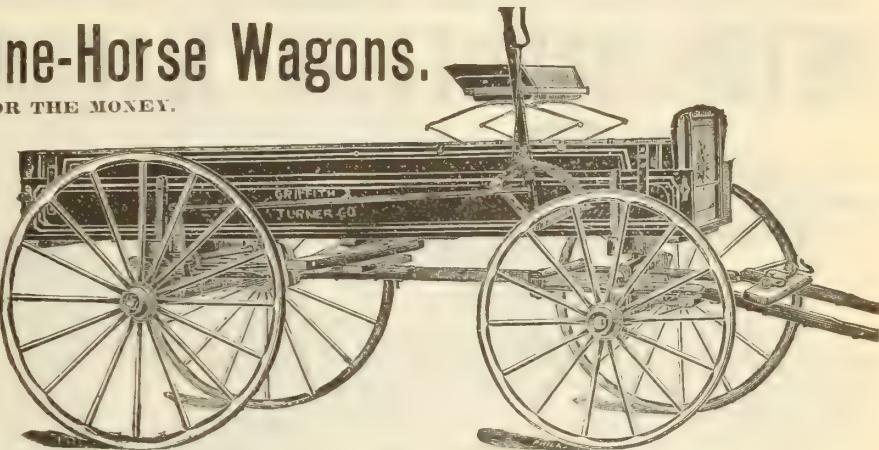
No. 40—Size Steel Axle, 1 $\frac{1}{2}$ ; size Tubular Axle, 1 $\frac{1}{2}$  x 6 $\frac{1}{2}$ ; size Tire, 1 $\frac{1}{2}$  x 5-16; capacity, 1500 to 1800 pounds.

Without Brake, List, \$67.00; Retail, \$40.00.

With Gear Brake, List, \$73.00; Retail, \$44.00.

Gear only, no Brake, List, \$59.00; Retail, \$35.50.

Gear only, with Brake, List, \$65.00; Retail, \$39.00.



## Solid Steel and Tubular Steel Axle Wagons

These Wagons are all heavily ironed and braced, and for use in rough and hilly country they are specially adapted, being exceptionally strong. The wheels are dipped in Boiling Oil, and the round-edge tire is used for the protection of felloes and paint. They are one of the lightest-running Wagons made. There is an increasing demand in sandy countries for steel-axle wagons, and our trade in this style has grown immensely.

The prices include Whiffletrees, Wrench, Stay Chains, Tongue Chains, Box, Top Box, Spring Seat and Gear.

All Wagons will be arranged with Shafts for one horse instead of Tongue when ordered at same price.

No.	Size of Steel Axle.	Size of Tub'l'r Axles.	Size of Tires.	Height of Wheels.	Dimensions of Body.			Weight.	Capacity	Wagon complete, no brakes.		Wagon complete, with brakes.		Gears only, no brakes.		Gears only, with brakes.		
					Front.	Rear.	Length.			in. ft.	in. ft.	in. in.	in. ft.	in. in.	List.	Retail.	List.	Retail.
42	1 $\frac{1}{2}$	1 $\frac{1}{2}$ x 8	1 $\frac{1}{2}$ x 7 $\frac{1}{2}$	3 6	4	0	9	6	3	6	12	6	....	2,900 to 2,500	97.00	58.50	103.00	62.50
44	1 $\frac{1}{2}$	2 $\frac{1}{2}$ x 8	2 x 7 $\frac{1}{2}$	3 6	4	2	10	6	3	6	12	6	900	2,500 to 3,000	110.50	66.50	119.00	71.50
46	1 $\frac{1}{2}$	2 $\frac{1}{2}$ x 9 2	x $\frac{1}{2}$	3 6	4	2	10	6	3	6	12	8	1,000	3,000 to 3,500	118.00	71.00	126.50	76.00
48	2	2 $\frac{1}{2}$ x 10 2	x $\frac{3}{4}$	3 6	4	2	10	6	3	6	14	8	1,200	4,000 to 4,500	126.50	76.00	135.00	81.00
50	2 $\frac{1}{4}$	2 $\frac{7}{8}$ x 11 3	x $\frac{3}{4}$	3 6	4	2	....	....	....	....	....	....	1,200	6,000	160.00	96.00	170.50	102.30
52	2 $\frac{1}{2}$	3 $\frac{1}{2}$ x 12 3	x $\frac{3}{4}$	3 6	4	2	....	....	....	....	....	....	8,000	....	....	....	164.00	98.50
Running Gear.																		

For tires wider than above on Nos. 42, 44 and 46, add List \$9.00, Retail, \$5.00 per inch; on Nos. 48, 50 and 52, add List \$11.00, Retail \$6.00 per inch.

For tires thicker than regular add \$4.50 List, \$2.75 Retail, for every  $\frac{1}{4}$  inch additional thickness on 3 inches wide and upward. Less than 3 inches wide add \$2.25 List, \$1.25 Retail, for every  $\frac{1}{4}$  inch additional thickness. **Special Discount for Cash.**

### EXTRAS FOR G. & T. WAGONS.

G. & T. One Horse.	No. 40	No. 40	No. 42	No. 42	No. 44	No. 44	No. 46	No. 46	No. 48	No. 48	No. 50	No. 50	No. 52	No. 52	List.	Retail.	List.	Retail.	List.	Retail.	
Bodies.....	16.00	9.00	17.00	9.50	18.50	10.50	20.50	12.50	22.50	13.50	24.50	14.50	34.00	19.50	....	....	....	....	....	....	
Spring Seats.....	4.60	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	....	....	....	....	....	....	
Tongues.....	....	....	9.00	5.50	9.00	5.50	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
Wheels Reg. per set	24.00	15.00	29.00	18.00	43.00	27.00	48.00	30.00	53.00	33.00	58.00	36.00	63.00	39.00	68.00	42.00	....	....	....	....	....

Is now regarded as part of regular farm equipment. We use celebrated Electric Steel Wheels, and gears are made of selected stock. Standard Gauge Tracks, 5 feet from center to center of tire, and bolster measures 3 feet 6 inches between standards.

### PRICES OF THE "HANDY" STEEL WHEEL FARM GEAR.

Size of Axles.	Height of Wheels.	Width of Tire.	Capacity.	Price.
3 $\frac{1}{4}$ -in. Skein.	28 and 30 inch.	4 inch.	3000 lbs.	\$25.00
3-in. Skein.	28 and 30 inch.	4 inch.	3000 lbs.	23.75
2-in. Solid Steel.	28 and 30 inch.	4 inch.	5000 lbs.	30.00

**PRICE OF EXTRAS**—Brake, \$4.00; Double Trees and Neck Yoke, \$2.75. Electric Handy One-Horse Gear, 3000 lbs. capacity; 3-in. tires, \$25.00. Electric Handy One-Horse Wagon, with body, no brake, \$35.00.

For Wagons and for mounting Feed Cutters, Threshers Huskers, etc.				
24 x 4 inch.	....	....	....	\$3.75
28 x 4 inch.	....	....	....	4.25
30 x 4 inch.	....	....	....	4.50
34 x 4 inch.	....	....	....	5.50
36 x 4 inch.	....	....	....	5.75



Electric  
Steel  
Wheels.

## "Handy" Steel Wheel Farm Wagon

# PETER SCHUTTLER WAGON.



**With Patented Metal Sand Guards,  
Lynch Pin, Steel Skeins.**

**PRICES, WAGON COMPLETE.**

3 1/4-in. Steel Skein Wagon, with Wheels 3 ft. 9 in. front, 4 ft. 7 in. rear, 4x5 1/2-in. Tires, 12-in. Top Box, Spring Seat, 1 1/2-in. Eastern Gear Brake, Truss and Sand Guards complete.

Retail Price.....\$102.00

**PRICES, GEARS ONLY, WITH BRAKE.**

3 1/4-in. Steel Skein Gear only, with Wheels 3 ft. 9 in. front and 4 ft. 7 in. rear, 4x5 1/2-in. Tire, 1 1/2-in. Eastern Gear Brake, Truss and Sand Guards.

Retail Price.....\$89.00

3 1/2-in. Steel Skein Gear only, with Wheels 3 ft. 9 in. front and 4 ft. 7 in. rear, 4x5 1/2-in. Tire, 1 1/2-in. Back-Action and Side-Lever Brake, Truss and Sand Guards.

Retail Price.....\$96.50

3 3/4-in. Steel Skein Gear only, with Wheels 3 ft. 9 in. front and 4 ft. 7 in. rear, with 4x5 1/2-in. Tire, 1 1/2-in. Back-Action and Side-Lever Brake, Truss and Sand Guards.

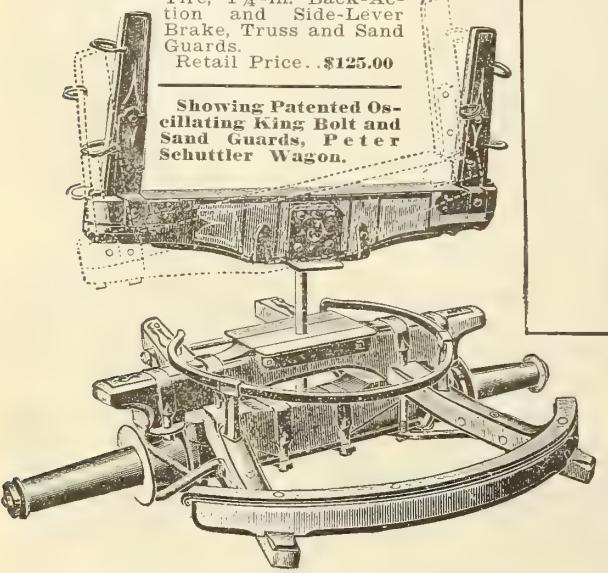
Retail Price.....\$116.00

4-in. Steel Skein Gear only, with Wheels 3 ft. 9 in. front and 4 ft. 7 in. rear, with 4x1-in.

Tire, 1 1/2-in. Back-Action and Side-Lever Brake, Truss and Sand Guards.

Retail Price.....\$125.00

Showing Patented Oscillating King Bolt and Sand Guards, Peter Schuttler Wagon.



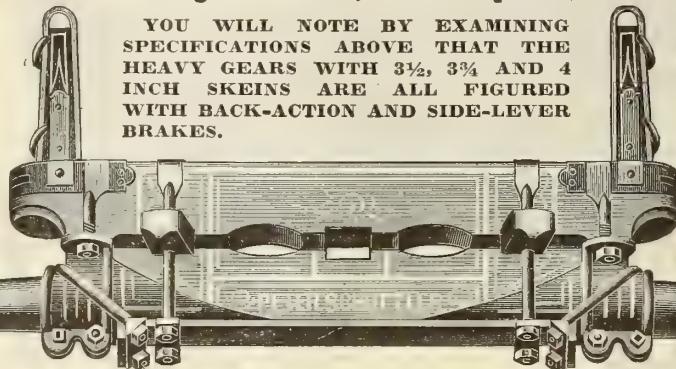
There are several very valuable features in this wagon that are not found in others, viz: Oscillating King Bolt, Axle Truss, Sand Guards and Stool Collar.

The Oscillating King Bolt prevents all twisting and wrenching of the box and load, and relieves the team when wheels pass over obstructions, adding to the life of the wagon.

The Axle Truss adds greatly to the strength of the axle and is held in place by a truss clip, which see in cut, and further strengthened by the Stool Collar, which clamps around the top of the bolster and bolted at bottom of the axle truss, bringing weight of load nearer the wheels.

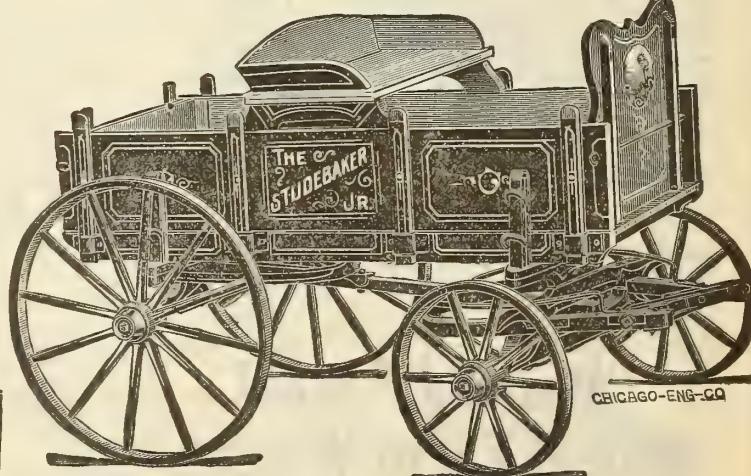
Another very valuable and necessary attachment is the Metal Sand Guard, consisting of a flat malleable iron ring clinched to the skein collar. It fits nicely within the hub band, which projects full width over it when wheel is in place, consequently the skein bearings are rendered entirely impervious to dust or sand.

## Cut Showing Axle Truss, Truss Clip and Stool Collar.

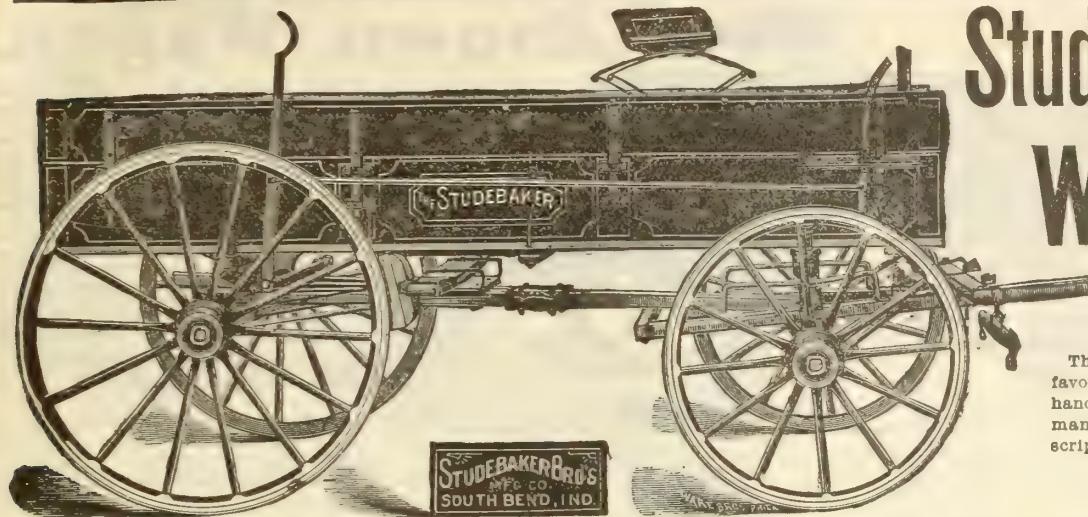


YOU WILL NOTE BY EXAMINING SPECIFICATIONS ABOVE THAT THE HEAVY GEARS WITH 3 1/2, 3 3/4 AND 4 INCH SKEINS ARE ALL FIGURED WITH BACK-ACTION AND SIDE-LEVER BRAKES.

## STUDEBAKER JUNIOR.



The Studebaker Junior is a substantially made miniature wagon, not a mere toy. It is one of the finest and strongest wagons of its kind in the market, and is built after the style of the regular Studebaker—oak frame, farm wagon gearing with bent hounds and adjustable reach, all parts strongly ironed and braced, welded tires, staggered spokes, hub boxes and caps, oak shafts (or pole if desired), handsomely painted. Body is 17x36, wheels 12x18 inches. The Studebaker Junior is suitable for use by the child alone or with a good sized dog, sheep or goat in the shafts. Price, \$9.00.



# Studebaker Wagons.

These wagons are so well and favorably known and have been handled by our house for so many years, that further description is unnecessary.

## SPECIAL STEEL SKEIN FARM WAGON FOR MARYLAND AND PENNSYLVANIA.

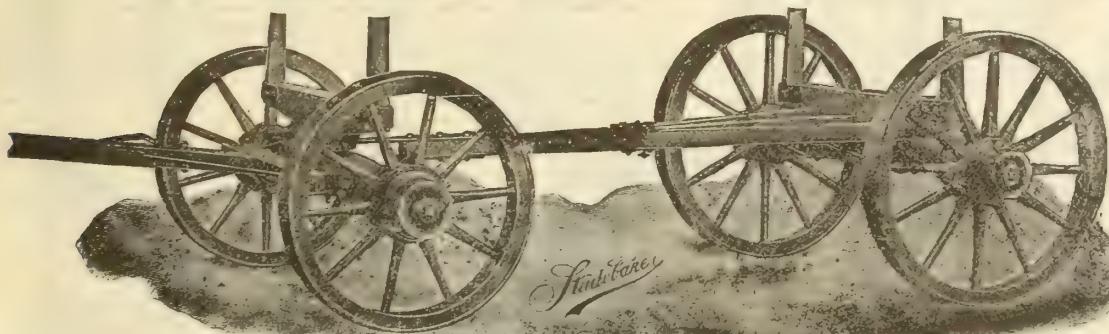
No.	Size of Skeins.	Height of Wheels.		Size of Tire.	Dimensions of Box.			Approximate.		Prices.		
		Front.			Hind.			Lower.	Top.	Length.	Gear only, with brake.	
		Inches.	Ft. In.		Ft. In.	Inches.	Inches.	Inches.	Inches.	Ft. In.	List Price.   Retail Price.	
27 1/2	3 1/2 x 11	3	8	4	6	4 x 5/8	13	8	11	6	1300 5000 \$114.20 \$91.50	
28 1/2	3 3/4 x 12	3	8	4	6	4 x 3/4	14	10	11	6	1575 6500 135.20 108.00	

SPECIAL DISCOUNT FOR CASH.

## STANDARD THIMBLE SKEIN FARM WAGON.

No.	Size of Skeins.	Height of Wheels.		Size of Tire.	Dimensions of Box.			Approximate.		Wagon complete with brake.	Gear only with brake.	
		Front.			Hind.			Lower.	Top.	Length.		
		Inches.	Ft. In.		Ft. In.	Inches.	Inches.	In.	In.	Ft. In.		
2	2 1/2 x 8	3	8	4	4	1 1/2 x 5/8	12	8	10	0	850 2000 \$93.50 \$74.80	
2	2 1/2 x 8	3	8	4	4	2 x 5/8	12	8	10	0	850 2000 97.00 77.60	
2	2 1/2 x 8	3	8	4	4	2 1/2 x 5/8	12	8	10	0	850 2000 100.00 80.00	
2	2 1/2 x 8	3	8	4	4	3 x 5/8	12	8	10	0	850 2000 101.50 81.20	
3	3 x 9	3	8	4	6	1 1/2 x 5/8	13	8	10	6	1000 3500 100.00 80.00	
3	3 x 9	3	8	4	6	2 x 5/8	13	8	10	6	1000 3500 103.00 82.40	
3	3 x 9	3	8	4	6	2 1/2 x 5/8	13	8	10	6	1000 3500 107.00 85.60	
3	3 x 9	3	8	4	6	3 x 5/8	13	8	10	6	1000 3500 110.00 88.00	
4	3 1/4 x 10	3	8	4	6	1 1/2 x 5/8	14	10	10	6	1100 4000 103.00 82.40	
4	3 1/4 x 10	3	8	4	6	2 x 5/8	14	10	10	6	1100 4000 106.50 85.20	
4	3 1/4 x 10	3	8	4	6	2 1/2 x 5/8	14	10	10	6	1100 4000 110.00 88.00	
4	3 1/4 x 10	3	8	4	6	3 x 5/8	14	10	10	6	1100 4000 112.00 90.40	
6	3 1/2 x 11	3	8	4	6	1 3/8 x 5/8	16	12	10	6	1250 5000 113.50 90.80	
5	3 1/2 x 11	3	8	4	6	3 x 5/8	16	12	10	6	1250 5000 123.50 98.80	
											97.50 78.00	

## STUDEBAKER'S FARMERS' HANDY TRUCK.



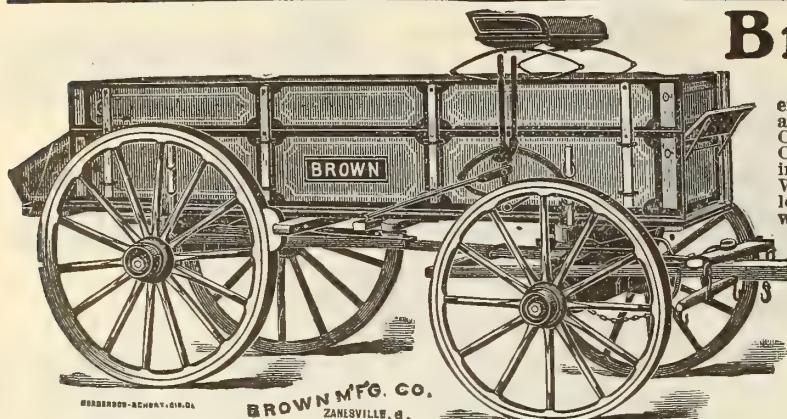
No. 8228, with Wood Wheels.

No.	Size of Cast Skein.	Height of Wheels.		Size of Tire.	Approximate.		List Price.	Retail Price.
		Front.	Hind.		Weight	Capacity		
8228	3 1/4 x 10"	30"	Wood	36" Wood	4 x 3 3/8"	680 lbs.	4000 lbs.	\$40.00 \$35.00
8228 3/4	3 1/4 x 10"	30"	Steel	36" Steel	4 x 1/2"	680 lbs.	4000 lbs.	37.50 33.50
8228 1/2	3 1/4 x 10"	24"	Steel	30" Steel	4 x 1/2"	680 lbs.	4000 lbs.	35.50 32.00

This truck is especially adapted to farm or orchard work, but can be readily utilized for transfer work by adding a suitable platform. The reach is long enough to couple out for a 16 foot rack or box. The bolsters are made with wrought iron sockets and removable wood standards.

We believe the wood hub wheels to be stronger and of longer life than the steel wheels, but will, if desired, furnish steel wheels at the same price.

NOTE.—We will ship wood wheels unless otherwise specified.



HARRISON-BROWN &amp; CO., LTD.

BROWN MFG. CO.  
ZANESVILLE, O.

## Brown Wagon.

Axes are made of dried selected hickory. Brown's Patent Extension Chilled Skeins. These Skeins support the axle where it has the greatest load to bear. Tongue Chains and Stay Chains fitted with springs. The Tongue Chains have a branch chain to prevent jerking and switching of the tongue and eases the draft on the horses' necks. Wheels all positively soaked in hot oil. Tires never get loose. Write for special circular fully describing these wagons.

Coil springs are applied to Tongue—eases draft on team's neck, when chains are forced to control tongue or hold back. They supply the place of the vibrating neck yoke. Yield to pull of chain or branch chain, saving team from jerking of tongue. Branch chains are added to each tongue, practically destroying side jerking and whipping motion. Acts same as neck yoke.

## WAGON SEATS.

List Price, \$6.00.

Retail Price \$3.50.

No.	Size of Cast Skein.	Height of Front Wheels.	Height of Rear Wheels.	Size of Tire.	Regular depth of bottom box.	Regular depth of top box.	Regular Length of bed inside.	Capacity pounds.	Wagon Complete with Brake.		Gear only with Brake.	
									List Price.	Retail Price.	List Price.	Retail Price.
00	2 3/4 x 8 1/2	3' 8"	4' 4"	1 1/2 x 1 1/8	14"	6"	9 1/2"	2500	\$125.70	\$75.50	\$94.32	\$56.75
00	2 3/4 x 8 1/2	3' 8"	4' 4"	2 1/2 x 8 1/8	14"	6"	9 1/2"	2500	139.68	84.00	108.26	65.00
1 3	x 9	3' 8"	4' 4"	1 1/2 x 9 1/8	15"	6"	9 1/2"	4000	130.36	78.25	98.96	59.50
1 3	x 9	3' 8"	4' 4"	2 1/2 x 9 1/8	15"	6"	9 1/2"	4000	144.34	86.75	112.92	67.75
1 3	x 9	3' 8"	4' 4"	3 x 9 1/8	15"	6"	9 1/2"	4000	156.00	93.75	124.56	74.75
2	3 1/4 x 10	3' 8"	4' 4"	1 1/8 x 9 1/8	16"	8"	10 "	4500	135.02	81.00	103.60	62.25
2	3 1/4 x 10	3' 8"	4' 4"	2 1/2 x 9 1/8	16"	8"	10 "	4500	146.66	88.00	115.24	62.25
2	3 1/4 x 10	3' 8"	4' 4"	3 x 9 1/8	16"	8"	10 "	4500	158.30	95.00	126.88	76.25
3	3 1/2 x 11	3' 8"	4' 4"	1 3/4 x 9 1/4	16"	10"	10 "	5500	144.34	86.75	115.24	69.25
3	3 1/2 x 11	3' 8"	4' 4"	3 x 9 1/4	16"	10"	10 "	5500	160.64	96.50	131.54	79.00

## SPECIAL STEEL SKEIN, LINCH PIN GEARS, 4-INCH TIRES.

2 3 1/4 x 10	3' 8"	4' 4"	4 x 9 1/8	4500	.....	.....	\$135.02	\$81.00
3 3/2 x 11	3' 8"	4' 4"	4 x 9 1/4	5500	.....	.....	151.32	91.00
4 3 3/4 x 12	3' 8"	4' 4"	4 x 9 7/8	6500	.....	.....	169.94	102.00
5 4 x 12	3' 8"	4' 4"	4 x 1	7500	.....	.....	191.00	115.00

Rear Lock or Hay Lock for Special Nos. 3, 4 and 5 Gears, List \$12.00; Retail \$7.00.

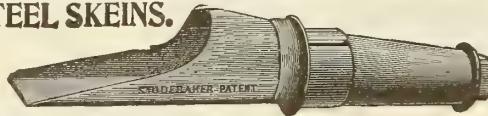
Special Discount for Cash.

No. 3—2-inch Solid Steel Axle Gear, with 3x 3/4 Tires, Side Brake. List \$140.11, Retail \$84.00

No. 4—2 1/4-inch Solid Steel Axle Gear, with 3x 3/4 Tires, Side Brake. List 152.00, Retail 91.00

For Wagons or Gears without Brake  
Deduct from List \$9.00; from retail \$5.50.

## PATENT STEEL SKEINS.

Revised Price  
List,  
PATENT  
STEEL SKEINS

Steel Skeins with boxes, per set.

Boxes only, per set.

No.	Size.	With nuts, Price List.	Price List.
1	2 1/2 x 7 "	\$5.60	\$1.12
1 1/4	2 1/4 x 7 1/2 "	5.70	1.14
1 1/2	2 1/2 x 7 1/2 "	5.70	1.14
2	2 1/2 x 8 "	5.80	1.16
3	2 1/2 x 8 "	6.10	1.22
4	2 1/2 x 8 1/2 "	6.20	1.24
5	2 1/2 x 9 "	6.30	1.26
6	3 x 9 "	6.50	1.30
7	3 x 10 "	6.70	1.34
8	3 1/4 x 9 "	7.40	1.48
9	3 1/4 x 10 "	7.50	1.50
10	3 1/2 x 10 "	8.30	1.66
11	3 1/2 x 11 "	8.50	1.70
12	3 1/2 x 12 "	9.00	1.80
13	3 1/2 x 11 "	10.00	2.00
14	3 1/2 x 12 "	10.00	2.00
15	4 x 12 "	12.00	2.40
16	4 1/4 x 12 "	13.00	2.60
17	4 1/2 x 13 "	18.00	3.30
18	5 x 14 "	23.00	4.60

No. Size. With Linch Pins, Price List.

19	2 1/2 x 8 "	5.80	1.16
19 1/2	2 1/4 x 9 "	6.30	1.26
20	3 x 9 "	6.50	1.30
20 1/2	3 x 10 "	6.70	1.34
21	3 1/4 x 10 "	7.50	1.50
22	3 1/2 x 10 "	8.30	1.66
23	3 1/2 x 11 "	8.50	1.70
24	3 1/2 x 12 "	9.00	1.80
25	3 1/2 x 12 "	10.00	2.00
26	4 x 12 "	12.00	2.40
27	4 1/4 x 12 "	13.00	2.60
28	4 1/2 x 13 "	18.00	3.60

NOTE.—These Trade Skeins not to be confused with the patent and special truss skeins used on the Brown and Studebaker Wagons.

## S. B. TRADE CAST SKEIN.

Standard Price  
List S. B. Trade  
Cast Skeins.

Cast Skeins, with boxes.				Boxes only.	
No.	Size.	List Per Set.	Retail Per Set.	List Per Set.	Retail Per Set.
1	2 x 6 "	\$3.25	\$2.00	\$1.05	\$.65
2	2 x 6 1/2 "	3.25	2.00	1.08	.65
3	2 1/2 x 6 1/2 "	3.50	2.10	1.17	.70
4	2 1/2 x 7 "	3.75	2.25	1.25	.75
5	2 1/2 x 7 "	4.00	2.40	1.34	.80
6	2 1/2 x 7 1/2 "	4.00	2.40	1.34	.80
7	2 1/2 x 7 1/2 "	4.00	2.40	1.34	.80
8	2 1/2 x 7 1/2 "	4.50	2.70	1.50	.90
9	2 1/2 x 8 "	4.75	2.85	1.58	.95
10	2 1/2 x 8 "	5.25	3.15	1.75	1.05
11	2 1/2 x 8 1/2 "	5.40	3.25	1.80	1.08
12	2 1/2 x 9 "	6.00	3.60	2.00	1.20
13	3 x 9 "	6.00	3.60	2.00	1.20
14	3 x 10 "	6.50	3.90	2.17	1.30
15	3 1/4 x 9 "	7.00	4.20	2.33	1.40
16	3 1/4 x 10 "	7.50	4.50	2.50	1.50
17	3 1/4 x 11 "	7.75	4.65	2.58	1.55
18	3 1/2 x 10 "	8.00	4.80	2.67	1.60
19	3 1/2 x 11 "	8.30	5.00	2.77	1.65
20	3 1/2 x 12 "	8.80	5.25	2.94	1.75
21	3 3/4 x 11 "	9.00	5.40	3.00	1.80
22	3 3/4 x 12 "	9.40	5.65	3.14	1.90
23	4 x 11 "	10.60	6.35	3.54	2.15
23 1/2	4 x 12 "	10.60	6.35	3.54	2.15
24	4 1/2 x 12 "	15.00	9.00	5.00	3.00
24 1/2	4 1/2 x 12 "	18.00	10.80	6.00	3.60
24 3/4	4 3/4 x 12 "	20.00	12.00	6.67	4.00
25	4 1/2 x 13 "	20.00	12.00	6.67	4.00
25 1/2	5 x 12 "	23.00	13.80	7.67	4.60
25 3/4	5 x 13 "	23.00	13.80	7.67	4.60
26	5 x 14 "	25.00	15.00	8.34	5.00
27	5 1/2 x 14 "	30.00	18.00	10.00	6.00

Made of the best grade of plate steel. Solid extension back of the collar keeps the wet and grease from working in on axle. Extension back of collar covers all tapering portions and more of the wood of the axle than any other skein.

All sizes, from 2 1/2 x 7 to 4 x 12, inclusive, are made with truss attachment, as shown in cut. These skeins are made of a better quality of iron than the ordinary trade cast skeins.

## OLIVER.

Strong, heavy. Furnished with either cast or steel cutter shares; with draft iron running from clevis to beam. Jointer or hanging desired. R. H. only.

Oliver's Latest Pattern, Road and Grading Plow, No. 24. IRON BEAM.

Price, Plain, \$15.00; with Wheel, \$16.00.

Above prices include 1 extra Share.

## Syracuse Contractors' Plow, No. 1.

Hard iron wearing parts. Extra heavy beam, share and strip, steel wheel standard. Turn furrow 5 to 9 inches deep, 12 to 15 inches wide. For general grading purposes. Two to four horse. Weighs 185 lbs. with wheel. \$15.00.

Mouldboards, landsides and points interchangeable. Points put on with five-eighths bolt.

## Baltimore Contractors' Plow.

No. 1—R. H., 2 to 4 horse; wt., 150 lbs. Price.....\$25.00  
No. 1—L. H., 2 to 4 horse; wt., 150 lbs. Price.....25.00  
No. 2—R. H., 4 to 6 horse; wt., 200 lbs. Price.....27.50  
No. 2—L. H., 4 to 6 horse; wt., 200 lbs. Price.....27.50  
No. 1—R. H. point. Price.....\$4.00  
No. 2—R. H. point. Price.....4.50  
No. 1—L. H. point. Price.....4.00  
No. 2—L. H. point. Price.....4.50

## HASLUP ROUND BACK, SOLID PRESSED DRAG SCRAPER.

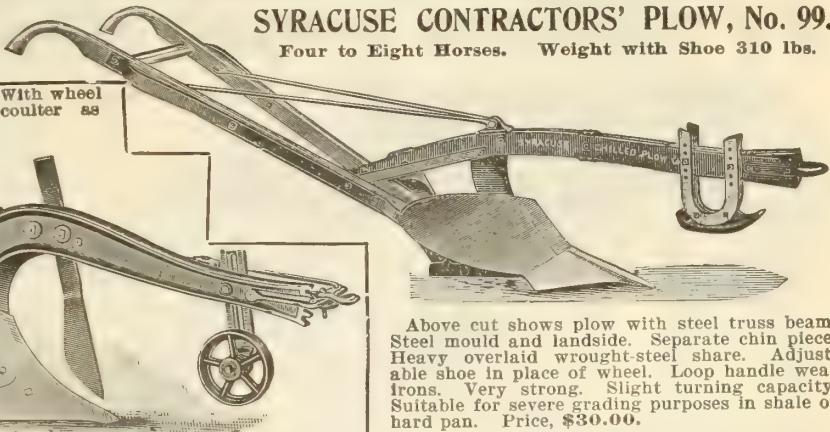
No. 1—with runners; capacity, 7 cubic feet; weight, 100 lbs.; price, \$5.75.  
No. 2—with runners; capacity, 5 cubic feet; weight, 90 lbs.; price \$5.50.  
No. 3—with runners; capacity, 3½ cubic feet; weight, 80 lbs.; price \$5.25.  
For single runners add to above price \$1.

Nos. 2, 2½ and 3 are furnished with heavy wood hub wheels; hubs, spokes and rims made of thoroughly seasoned stock. Sarven or metal wheels are furnished when ordered. Nos. 2½ and 3 wheelers are furnished regularly with snatch rod, and No. 2 when specially ordered.

We can furnish doubletrees and neckyokes when ordered, but charge extra for them.

## SYRACUSE CONTRACTORS' PLOW, No. 99.

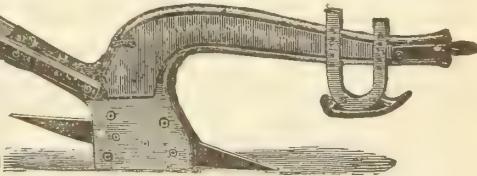
Four to Eight Horses. Weight with Shoe 310 lbs.



Above cut shows plow with steel truss beam. Steel mould and landside. Separate chin piece. Heavy overlaid wrought-steel share. Adjustable shoe in place of wheel. Loop handle wear irons. Very strong. Slight turning capacity. Suitable for severe grading purposes in shale or hard pan. Price, \$30.00.

## SYRACUSE PAVEMENT PLOW, No. 98.

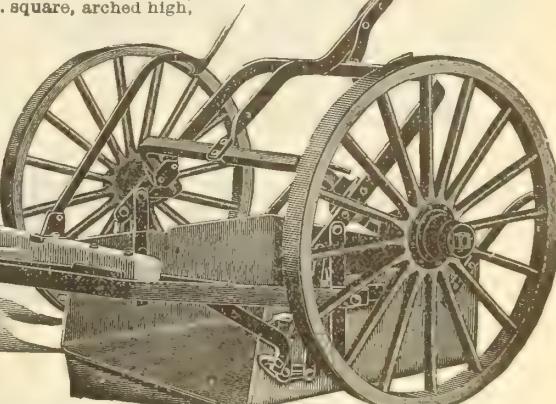
Adjustable and double-bar steel point. Adjustable shoe in place of wheel. Loop handle wear arms. Very strong. Specially adapted for tearing cobblestones and macadam pavement. Four or six horse. Weight, 265 lbs. Price, \$25.00.



## Haslup Patent Wheel Scraper.

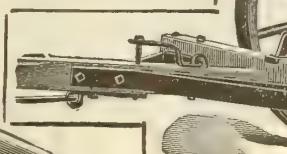
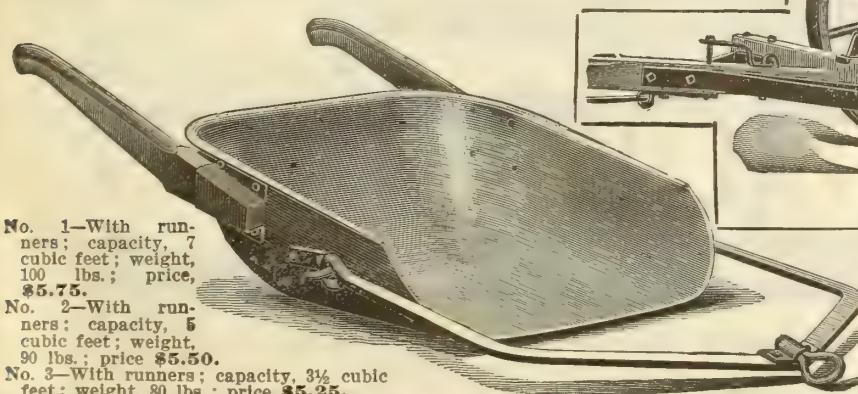
### DESCRIPTION OF SIZES.

Order by Number Only. We Make Four Sizes.  
No. 1—Capacity, 9 cubic feet; size of bowl, 36 inches long, 36 inches wide, 12 inches deep; wheels, 36 inches high; tire, 3x5½; steel axle, 1½ inches square, arched high; spindles turned and polished; tongues, best quality of hardwood, heavily ironed, with double steel draft bars; weight, 450 lbs. Price, \$30.00.  
No. 2—Capacity, 13 cubic feet; size of bowl, 37 inches long, 38 inches wide, 13½ inches deep; wheels, 40 inches high; tire, 3x5½; steel axle, 1½ inches square, arched high; spindles turned and polished; tongues, best quality of hardwood, heavily ironed; with double steel draft bars; weight, 600 lbs. Price, regular .....\$37.50  
Same, with Snatch Rod .....38.50  
No. 2½—Capacity, 14½ cubic feet; size of bowl, 41 inches long, 38 inches wide, 14 inches deep; wheels, 44 inches high; tire, 3x5½; steel axle, 1½ inches square, arched high.



spindle turned and polished; tongues, best quality of hardwood, heavily ironed; with double steel draft bars; weight, 675 lbs. Price, \$40.00.

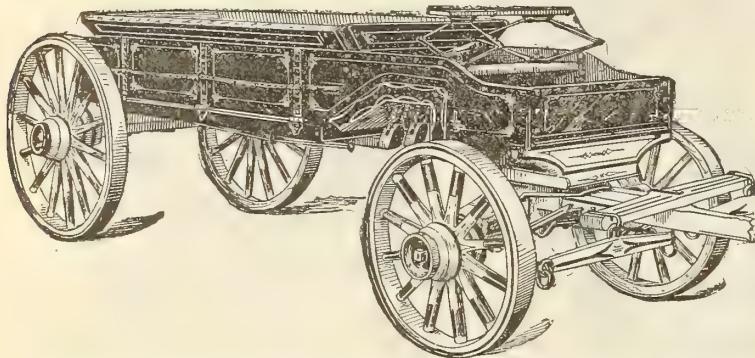
No. 3—Capacity, 17 cubic feet; size of bowl, 41 inches long, 44 inches wide, 16 inches deep; wheel, 44 inches high; tire, 3x5½; steel axle, 1½ inches square, arched high; spindle turned and polished; tongues, best quality of hardwood, heavily ironed, with double steel draft-bars; weight, 750 lbs. Price, \$42.50.



Nos. 2, 2½ and 3 are furnished with heavy wood hub wheels; hubs, spokes and rims made of thoroughly seasoned stock. Sarven or metal wheels are furnished when ordered. Nos. 2½ and 3 wheelers are furnished regularly with snatch rod, and No. 2 when specially ordered.

We can furnish doubletrees and neckyokes when ordered, but charge extra for them.

# NEW YORK ACME AUTOMATIC BOTTOM DUMPING WAGON.



Made of best materials, constructed according to the most approved methods of wagon building. Dumping is done by driver without leaving his seat by simply pressing down lever until load is discharged. Axles heavily bedded in wood; spokes of selected second-growth oak, slit, dipped in hot glue before driving; rims bent from best white oak; bodies of best selected dry oak.

One and One-half Yard Dumping Wagon.—Size front axle, 2x2 inches; rear axle, 2 1/4x2 1/4 inches; length of arm, 10 inches; hubs, 9x12 inches; spokes, 2 1/2 inches; depth of rim, 2 inches; width of rim, 3 or 4 inches as wanted; thickness round-edge tire, 1/2 inch; width of tire, 3 or 4 inches as wanted; diameter front wheels, 36 inches; rear wheels, 48 inches; weight, 1600 pounds.

Same as above, but capacity 2 cubic yards. Weight, 1700 pounds.

#### PRICE:

1 1/2 Yard Wagon, 4x5 1/2-inch Tire.....	\$145.00
2 Yard Wagon, 4x5 1/2-inch Tire.....	155.00
Without Brake, less	\$7.50.

## The Studebaker Ideal Bottom Dumping Wagon.

One and one-half yards capacity. Solid steel axles. Made of very best material. Complete with Whiffletrées, Neck Yoke and Wrench.

**Special Discount for Cash.**

## Acme Contractors' Bottom Dumping Wagon.

Is so constructed that, the load being carried low, is equally distributed on the four wheels and dumped by the driver with his foot while going.

The doors are suspended with solid and chain hinges combined, and when open are not rigid laterally, but free to oscillate in any direction.

No chains on inside; dumps clean and clear; can be turned within its own length. Price, without brake, \$130.00.

No. 8210 3/4. Size of skeins—Front, 3 1/4 inches; hind, 3 1/2 inches. Height of wheels—Front, 38 inches; hind, 50 inches. Size of tire—3x1 1/2 inches. Capacity of box—1 1/2 cubic yards. Retail price, without brake, \$135.00. With brake, \$145.00.

Height of front wheels, 36 inches; height of rear wheels, 48 inches; width of tire, 3 inches; length of body inside at top, 6 feet 5 inches; length of body inside at bottom, 5 feet; width of body inside, 36 inches; depth of body, 22 inches.

Size of axle, 2-inch front and 2 1/4-inch rear.

Furnished with self-oiling steel tubular axles if wanted at same price.

Price, with brake.....\$140.00.

## FARM AND CONTRACTORS' CART.

With 5 and 6-inch Tires; also extra heavy Contractors' Carts made specially to order when wanted.

These carts are very strong, heavily ironed, nicely painted, striped and varnished.

Size of Axle.	Size of Tires.	Diam. of Wheels.	Price.
1 1/2 inches.	3 inches.	4 ft. 10 in.	\$37.50
1 1/2 inches.	4 inches.	4 ft. 10 in.	41.50
2 inches.	2 inches.	4 ft. 10 in.	45.00
2 inches.	3 inches.	4 ft. 10 in.	45.00
2 inches.	4 inches.	4 ft. 10 in.	48.50

**Special Discount for Cash.**

## FARM AND CONTRACTORS' CART WHEELS.

Per Pair. Per Pair.

For Farm Cart, 1 1/2-in. axle, 3-in. tire.....\$20.00; 4-in. tire..\$24.00  
For Contractors' Cart, 2-in. axle, 2-in. tire.....23.00; 3-in. tire...23.00

For Contractors' Cart, 2-in. axle, 4-in. tire.....27.00;

Shafts for 1 1/2-in. axle Farm Cart, no irons.....\$6.75

Shafts for 2-in. axle Contractors' Cart, no irons.....7.50

Axes for 1 1/2-in. axle Farm Cart.....5.50

Axes for 2-in. Contractors' Cart.....8.50

Bodies for Farm Cart.....22.50

Bodies for Contractors' Cart.....25.50

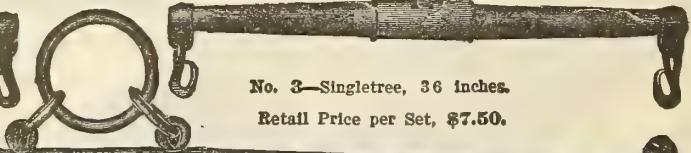
**Pattern No. 97.**



No. 3—Evener, 48 inches.

Weight per Set, 40 pounds.

Contractors' Tubular Everlasting Steel Doubletree.



No. 3—Singletree, 36 inches.

Retail Price per Set, \$7.50.



**Contractors' Tubular Everlasting Steel Neck Yoke, Pattern No. 98.**

No. 2—Length, 46 inches; weight, 14 pounds. Retail Price, each, \$2.75.

## UNCLASSIFIED GOODS.

### AMATITE READY-TO-LAY ROOFING.

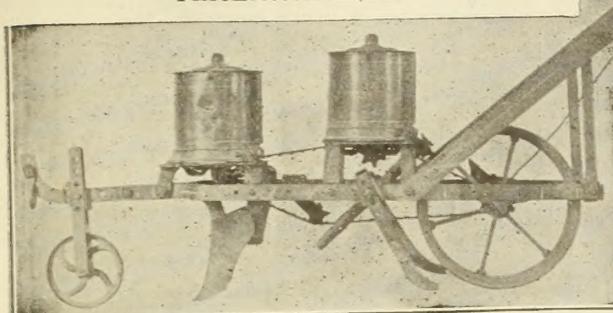
The best roofing on the market at the price; requires no painting, no repairs, no tinkering; in fact, no care or attention of any kind for a long time after it has been put down. It is a fire retardant, requires no skilled mechanic to lay it. It is slightly, very durable and a decided improvement on any other ready roofing on the market today. Send for booklet fully describing the character of this excellent roofing, also for small sample. Rolls 32 inches wide; 110 square feet sufficient to cover 100 square feet of roof, allowing 3-inch laps. Cement and nails packed with each roll. Price per roll, \$2.00; five rolls, \$9.50; ten rolls, \$18.00.

### FALCON BRAND ROOFING PAPER.

2-ply Falcon Roofing, per roll of 108 sq. ft.	\$ .75
3-ply Falcon Roofing, per roll of 108 sq. ft.	1.00
Coal Tar, per barrel	7.50
Roofing Pitch, in barrels of about 300 lbs., per 100 lbs.	2.00
Roofing Nails and Caps, per pound	.06

### GRITCO COMBINED PEA AND CORN DRILL.

PRICE.....\$16.00



This method of planting corn and peas is attracting a great deal of attention. And we now offer this machine which will successfully deposit corn and cow peas (some climbing variety being preferred) in the same hill. The theory which is proved by practical experience, is that the Pea or Bean being a leguminous plant, abstracts nitrogen from the air and deposits it in direct contact with the roots of the corn. Prof. Talliaferro, Agriculturist at the Md. Agricultural Experiment Station, states in a letter to us that "we find that corn and peas grown in this manner give a larger yield of corn than when corn is grown alone." He also states "that the yield of corn treated as above is better than corn or peas planted alternately in rows, and it not only benefits the corn but the growth of peas is not lessened."

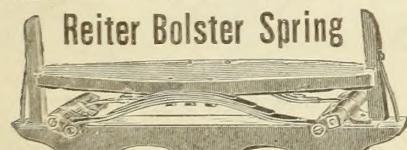
It produces the best balanced ration and ensilage of any other known method.

BINDER  
CANVAS  
STAPLES



BINDER  
CANVAS  
SLATS.

Each, 5e.



One of the best bolster springs made. A great improvement. Specially desirable for hauling fruit, eggs, etc. Do not work on top of bolster like bolster springs, but on each side in shackles on the same principal as any high-priced spring wagon. Cannot be broken by overloading or rebounding like a spring wagon.

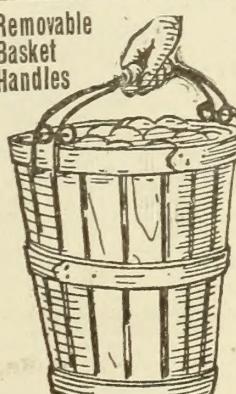
To arrive at size wanted, give measure of wagon between standards.

Capacity Between Between

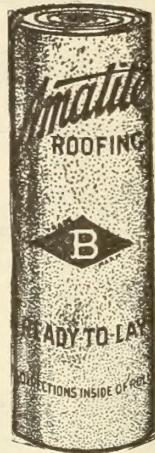
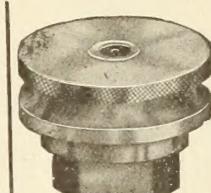
Lbs. Standards Standards

2000.....	42 in.	\$13.00	44 in..	\$14.00
2500.....	42 in.	14.00	44 in..	15.00
3000.....	42 in.	14.50	44 in..	15.50
4000.....	42 in.	15.00	44 in..	16.00
5000.....	42 in.	16.00	44 in..	17.00
6000.....	42 in.	19.00	44 in..	20.00

Removable  
Basket  
Handles



Easily and quickly ad-  
justed. Saves fruit and  
time. Baskets carried  
without mashing fruit.  
Price.....15c.



### MISTRY, Jr.

Fig. 1501.

The best nozzle we have ever seen for spraying sedimental solutions, the exit hole being larger than ordinarily, but has two holes of entrance to fill the large cap, and the force gives the solution a terrific rotary motion, producing a perfect mist. Prof. Symons, of the Md. Agri. College, highly recommends it. Price, \$1.25.

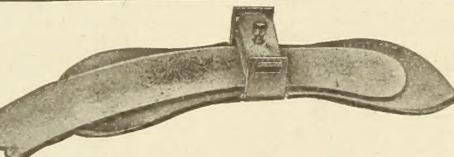
### Harrow Truck

Can be attached to a two or three-section harrow. No interference with levers at any time.

Wheels 24 in. high, tire 3 in., and far enough apart to avoid the row when harrowing small corn. Draw bar high carbon U bar steel. Driver always faces the team. Price, \$10.00.

### Eagle Reversible Harrow Points

Most durable and practical points on the market. Best grade of agricultural steel. Will wear a long time. Fastening device to the old tooth very simple, making any length desired. Points reversible. Has pulverizing qualities for any soil. Price, 15c.



### G&T EGG PRODUCER

Will produce eggs if used according to directions. Valuable at moulting time, keeping up the fowl's strength. Makes feathers develop, shortening the moulting period. For fowls recovering from roup there is nothing better. Will generally tone up the system. It is not a cure-all. See our other remedies for various diseases. Price, 25c.

### G&T CHOLERA REMEDY

For treatment of indigestion, bowel trouble, diarrhea, constipation and troubles of like character in old and young fowls, there is no better remedy. Should always be kept on hand.

If fowl is afflicted with loss of appetite and great thirst, it has cholera. Directions with every package. Price, 50c.

### G&T LIQUID LICE KILLER

For destruction of mites, lice, etc. As powder will not reach them effectively on the nests, roosts, drop boards, etc., we offer the Liquid Killer, to be painted on the woodwork, or it can be sprayed on. It will quickly and entirely rid your houses of these pests. Directions on every package. Price, quarts, 35c.; half gallon, 60c.; gallon, \$1.00.

### G&T LICE POWDER

Recommended by Prominent Poultrymen. Fatal to all lice, fleas and other insect vermin. Perfectly harmless to fowls, animals and vegetable life. Invaluable for use on setting hens and young chicks. For disinfecting hen houses; for ticks and fleas on horses, sheep and dogs; lice on vegetable plants there is nothing better. Furs and carpets are never moth eaten where this powder has been applied. Directions come with every package. Price, 25c., 50c., \$1.00.

## INDEX TO CATALOGUE

Vegetable Seeds.....	2-28	Carriage Heaters.....	149	Grafting Wax.....	58	Lice Killer (Liquid),	
Nursery Dept.....	53, 54	Carriage Heaters, Coal.....	149	Grain Fans.....	125	Scalers.....	157
Florist and Garden Supplies.....	58	Carts, Farm.....	15	Grape Scissors.....	57	Scales.....	140
Field Corn and Field Seeds.....	30	Cattle Ties.....	147	Grass Catcher.....	85	Scops.....	93, 140
Vegetable Roots.....	28	Caustic Soda.....	75	Grass Hooks.....	58	Scythes.....	118
Herbs.....	27	Chains.....	144	Grass Shears.....	57	Scythe Snaiths.....	118
White Clover.....	34	Charcoal.....	61	Grinding Mills, Hand.....	62, 63	Seed Drills.....	87, 88, 90
Forage Seeds.....	33	Chick Feed.....	61	Grinding Mill, Power.....	130, 131	Seeders, Grass.....	94
Lawn and Golf Seeds.....	34	Chick Manna.....	61	Grind Stones.....	141	Serarators.....	66
Potatoes.....	29	Churns.....	69	Grit, (Crystal).....	61	Settees, Lawn.....	86
Pop Corn.....	30	Cholera Cure.....	159	Grit and Shell Boxes.....	61	Shackles.....	98
Flower Seeds.....	36-41	Cider Mills.....	129	Grub Hoes.....	93	Shafts, buggy.....	150
Bulbs.....	50	Clevises.....	98	Grub Plow.....	107	Shafts, Cart.....	158
Greenhouse, Flowering & Potted Plants.....	42-49	Clips.....	100	Halters.....	147	Shearing Knife Grinder.....	148
Vegetable Plants.....	42	Clover Cutter.....	62	Hames.....	145	Milk Dip.....	76, 78
Roses.....	51, 52	Clover Seeds.....	34	Hammers.....	135	Sheep Shears.....	57
Grass and Clover Seeds.....	31, 32	Condition Powders, (Rusts).....	77	Handles, Ax.....	93	Sheep-Shearing Machines.....	148
Oats, Buckwheat, Barley, Wheat and Rye.....	30	Contractor's Cart.....	158	Handles, Pick and Mattock.....	93	Shelvers.....	124, 125
Mushrooms.....	19	Collars.....	145	Handles, Fork, Rake, Hoe and Shovel.....	92	Shovel Plows.....	112
Sunflower and Broom Corn.....	33	Cold Chisel.....	123	Harrows.....	104, 105, 106	Shovel Plow Beams and Handles.....	112
Flax Seed and Meal.....	33	Cold Cutter.....	130	Harrow Reversible Points.....	159	Shovel Plow Clevises.....	112
Bird Seed.....	61	Corn Barrels.....	64	Harrow Teeth.....	104, 105	Shovel Plow Steels and Bolts.....	112
Implements, Vehicles, etc.		Corn and Bean Planter.....		Harrow Trucks.....	159	Shovels.....	98
Antikol.....	77	Corn Hook.....	118	Harness.....	144	Sidewalk Cleaner.....	92
Apple Pearer.....	129	Corn Harvester.....	116, 128	Harness Dressing.....	144	Sikoline.....	58
Aprons, Blanket.....	151	Corn Planter, Runners and		Harness Menders.....	144	Singletrees.....	100
Aprons, Kitchen.....	151	Cotton Planter.....	108, 109, 110	Hay Car Bring Backs, (Lidke).....	159	Singletrees, Contractors.....	158
Aprons, Storm.....	151	Cows Relief.....	110	Hay Knives.....	118	Spades.....	93
Aprons, Wash.....	151	Cowtail Holder.....	77	Hay Loader.....	119	Spray Pump Extras.....	70
Ash Spreader.....	101	Cradles.....	67	Hay Press.....	119	Spraying Tanks.....	72
Asparagus Buncher.....	2-56	Creamery.....	68	Hay Racks.....	146	Sprinklers, Lawn.....	35
Asparagus Knife.....	2, 56, 57	Cultivators.....	111, 113, 114, 115	Hay Rakes.....	119	Sprinklers, Plant.....	58
Atomizers.....	74	Cultivator Steel.....	111, 112, 113	Hay Tedders.....	119	Stakes.....	58
Axle Cart.....	158	Curry Combs.....	147	Hay Tools and Fixtures.....	120	Stalk Cutters.....	128
Axle Grease.....	152	Cushions.....	150	Hedge Shears.....	57	Stall Guards.....	146
Axle Washers.....	150	Crystall Grit.....	61	Hens Nests.....	163, 159	Stanchions.....	146
Axes and Handles.....	93	Dattons.....	152	Hitching Posts.....	147	Stay Rollers.....	121
Back Band Hooks.....	145	Dehorners.....	148	Hoes, Field and Garden.....	92	Storm Fronts.....	151
Back Bands.....	145	Dibbers.....	56	Hoes, Scuffle.....	56, 92	Street Sprinklers.....	88
Bag Balm.....	77	Dog Clippers.....	57	Hog Scalder.....	64	Stretchers.....	142
Bailing Ties.....	142	Doubletree.....	100	Horse Clippers.....	57, 148	Stump Pullers.....	140
Drinking Fountains.....	63	Doubletrees, Contractors.....	158	Horse Comfort.....	77	Subsoil Plows.....	107
Barrel Headers.....	141	Disc Plows and Repairs.....	97	Horse Covers.....	151	Sulphur.....	75
Barn Door Hangers.....	121	Drills.....	138	Horse Hoes.....	111	Picks.....	93
Barn Door Tracks.....	121	Drills, Grain.....	122	Horse Powers.....	128	Plant Bed Cloth.....	58
Basket Handles.....	159	Drills, Garden.....	88	Horse-Radish Grater.....	79	Plaster Sifter.....	74
Baskets—Steel and Wood.....	64	Drill Tubes.....	122	Horse Scissors.....	57	Plant Stakes.....	58
Beef Scrap.....	61	Drill Points.....	122	Horse Shears.....	57	Plows and Repairs.....	95-99
Bells.....	64	Drivewell Points.....	80	Horse Tonic.....	77	Plows, Contractors'.....	157
Belting.....	123	Dust Hoods.....	151	Horticultural Tools.....	56, 57	Plow Handles.....	98
Belt Lacing.....	128	Edging Knives.....	56	Hose Clamps.....	35, 70	Poles, Carriage.....	150
Belting, Link Chain.....	135	Egg Box.....	158	Hose Couplings.....	35, 70	Posts and Rails.....	143
Binders.....	116	Egg Producer.....	61, 158	Hose Menders.....	35	Posthole Diggers.....	92
Binder Repairs.....	117, 118	Egg Tester.....	63	Hose Nozzles.....	35, 74	Potato Diggers.....	107
Binder, Canvas Staples.....	159	Electric Lighting Outfits.....	133	Hose Reels.....	35	Potato Duster.....	73
Binder, Canvas Slats.....	159	Feed Bags.....	145	Hose Rubber.....	35, 70, 72	Potato Hoes.....	118
Blocks.....	116	Feed Cutters.....	126, 127	Hole Points.....	56, 57	Potato Planters.....	110
Bodies, Cart.....	158	Feed Cookers.....	71, 79	Hole Clamps.....	35, 70	Potato Sprayers.....	73
Boilers, Separator.....	66	Feed Tray.....	63	Huskers.....	123	Poultry Bone.....	61
Boilers.....	66, 127	Feed Mill.....	62	Ice Hooks.....	92	Poultry Fence.....	63, 142
Boilers and Feed Cookers.....	71, 79	Fenders.....	112	Ideal Tonic.....	77	Poultry-Killing Knife.....	63
Bolts and Nuts.....	107	Fertilizer Distributors.....	101	I. D. Seats (Third Seats).....	152	Poultry Marker.....	63
Bolster Springs.....	150, 159	Fruit Picker.....	57	Incubators.....	59	Poultry Troughs.....	63, 146
Bone Meal.....	61	Fruit Dryer.....	54	Insecticides.....	75, 78	Powder Guns.....	74
Bone Mills.....	62	Flower Scissors.....	57	Jacks, Spur and Bevel		Pratt's Foods.....	61
Bonora.....	44	Flower Tubs.....	49	Gear.....	128	Pruners.....	57
Border Shears.....	57	Fodder Yarn.....	118	Jacks, Wagon.....	150	Pulverizers.....	87
Bowls.....	68	Forks.....	91	Jacks, Scaffolding.....	136	Pump Cylinders.....	81
Brackets and Hook, Ladder.....	136, 137	Forges.....	140	Kil-o-Scale.....	75	Pump Jacks and Heads.....	133
Briar Hooks.....	118	Forks, Tedder.....	113	Kil-Weed.....	35, 76	Pump Leathers.....	81
Brooders.....	59, 60	Food and Water Fountains.....	63	Kil-Worm.....	35, 76	Pumps, Spray.....	70-73
Brooms.....	58	Food Choppers.....	64	Knives, Budding.....	57	Pumps, Tank.....	82
Brushes.....	147	Gates, Farm and Lawn.....	143	Kow-Cure.....	77	Pump Tubing.....	80
Buggies.....	152	Gasoline Engines.....	132, 133	Kraut Cutter.....	73	Pumps, Well.....	50, 81, 82
Buggy Tops.....	150	Gall Cure.....	77	Lard and Fruit Press.....	64	Pump Extras.....	80
Bush Hooks.....	118	Garden Drills and Plows, 87, 90		Kur-Roup.....	76, 77, 159	Punches.....	123, 135
Butter Requisites.....	68	Garden Reels.....	56	Labels.....	55	Push Carts.....	83, 103
Butter Squeezer.....	66	Garden Sets.....	118	Ladders.....	136, 137	Raffia.....	58
Bulldozer Pump.....	133	Gates, Farm and Lawn.....	143	Ladder Hooks.....	136	Rakes.....	91
Cane Stakes.....	58	Gates, Farm and Lawn.....	143	Gear.....	128	Roofing.....	159
Calf Feeder.....	67	Gernozine.....	77, 78	Jacks, Wagon.....	150	Rake Teeth.....	119
Calf Weaners.....	67	Georgina Stocks.....	112	Kraut Cutter.....	73	Rams, Hydraulic.....	134
Canton Hoist.....	116	Glazing Points.....	58	Lard and Fruit Press.....	64	Repair Link.....	100
Caponizing Tools.....	63	Glazing Putty.....	58	Lawn Boot.....	86	Road Carts.....	152
Carnation Supports.....	58	Goat Wagon.....	154	Lawn Shears.....	57	Rollers.....	87
Golf Mower.....	85	Golf Mower.....	85	Lawn Trimmers.....	34	Rope.....	118
Lice Powder.....	76, 159	Lice Powder.....	85	Leaf Racks.....	83	Roofing.....	159
				Leg Bands.....	63	Root Cutters.....	79
				Lawn Boot.....	86	Row Markers.....	107
				Lawn Shears.....	57	Rubber Buckets.....	82
				Lawn Trimmers.....	34	Sal-Veget.....	149
				Leaf Racks.....	83	Salt Cake (Roto).....	149
				Leg Bands.....	64	Sausage Stuffer.....	64
				Lawn Shears.....	57	Saws.....	138, 139

# FERTILIZERS FOR THE FARM, LAWN and GARDEN.

The application of Fertilizers has been a topic much discussed among farmers generally. The quality and requirements of the soil are so varied, some lands being deficient in Potash, Phosphoric Acid, or some other chemical ingredient, that it is frequently very difficult for the farmer to determine just what mixture he needs. We give below a line of fertilizers best adapted to the various soils and crops.

## Animal Bone Phosphate.

Made principally from Animal Bone, Potash and Ammoniates in proper proportion. A complete manure always gives good results. Specially adapted to the growth of Peas, Cabbage, Wheat and Grass—it contains all the ingredients necessary to supply what may be lacking in the soil for almost any crop.

Price, \$28.00 per ton.

## Ammoniated Alkaline Plant Food.

Our old stand-by for summer crops; is used largely on Potatoes, Corn, Tobacco and other summer crops, stands the hot, dry weather particularly well.

Price, \$25.50 per ton.

## Ammoniated Butchers' Bone Phosphate.

Is made largely from slaughter-house stock; used principally for Wheat and Grass, as well as by growers of Corn and Tomatoes for canning purposes; a good article at a low price.

Price, \$28.50 per ton.

## Soft Ground Bone.

Made from softer material than the regular "Ground Bone," and contains some little meat and blood. The great objection to the use of Pure Bone (the price) no longer prevents its use by anyone wanting to restore worn-out land. Try it and be convinced.

Price, \$27.00 per ton.

## Dissolved Bone.

Made from stock containing some meat, thoroughly dissolved, and in fine drilling condition.

# KIL-WEED

For the destruction of noxious weeds and grass that infest Parks, Streets, Driveways of Private Residences, &c.

All organic growth is destroyed, therefore only intended for places where weeds are not wanted.

KIL-WEED not only kills weeds, but destroys seed germs and roots of plants.

One gallon KIL-WEED will make 50 gallons treating liquid.

Write for Circular and Prices.

# KIL-WORM

For use on Golf and Cricket Grounds, Parks, Cemeteries, &c.

KIL-WORM does not injure grass but acts rather as a fertilizer.

KIL-WORM has been thoroughly tested and found perfectly satisfactory.

KIL-WORM kills Worms, Ants, Snails, &c. Causes the insects to come to the surface to die.

One gallon KIL-WORM makes fifty gallons of liquid.

Write for Circular and Prices.

# HARDWOOD ASHES, UNLEACHED.

Most excellent for lawn dressing or orchards. Apply late in the fall or early spring, in order that the rains may leach the ashes and carry the elements down to the roots of the trees or grass. These ashes are in proper condition for immediate use. Apply at rate of 1000 to 1500 pounds per acre.

Price, 100 pounds, \$1.50. Barrel, \$2.50. Ton, \$18.00.

Farmers wishing a fertilizer for immediate action will find in this brand a reliable manure of good value, and one whose good effect can be seen for a long time.

Price, \$27.00 per ton.

## Soluble Bone Phosphate.

A good cheap Fertilizer. Quite a number of chemists claim that Ammonia adds very much to the cost of Fertilizers without being of much agricultural value; that is, sufficient Ammonia can be obtained from the atmosphere, etc., etc. Whether or not this theory is correct quite a number of people have used our Soluble Bone with very satisfactory results. To supply such a trade we offer the above.

Price \$16.00 per ton.

## Tobacco Bed Fertilizer.

This brand is specially well adapted for use on tobacco beds, containing 10 per cent. of Ammonia and a large percentage of Potash and Phosphoric Acid. A most excellent substitute for Peruvian Guano. In bags, 167 lbs.

\$4.00 per bag \$45.00 per ton.

## Special Mixture.

A new brand introduced by us this year; a complete Fertilizer, containing Ammonia, Potash and available Phosphoric Acid in proper proportions. Price \$17.00 per ton.

## Peruvian Guano.

10 per cent. goods. In bags of 167 pounds.

## High Grade Acid Phosphate.

## Kainit, Muriate of Potash.



## THE FIRST COMMERCIAL COMPOUND ON THE MARKET FOR SCALE.

## THE BEST AND MOST RELIABLE REMEDY FOR SAN JOSÉ SCALE.

## A CONCENTRATED LIQUID, SOLUBLE

in water in any proportion.

See KIL-O-SCALE, page 75, for prices and testimonials.

## Nitrate of Soda.

## Fine Ground Fish.

## Ground Tankage.

Prices on application.

## Land Plaster.

In bags 200 lbs. each.

90c per bag \$7.50 per ton

## Pulverized Sheep Manure.

This is purely a natural and most nutritious plant food, clean to handle, and its effect is immediate and lasting. There is nothing better to mix with soil for potting plants. Florists who use it extensively advise mixing about one-seventh manure and six-sevenths soil. As a top dressing for lawns, it is unequalled.

5 lbs. 25c; 10 lbs. 40c; 30 lbs. \$1.00;  
50 lbs. \$1.25 100 lbs. \$2.00.

Special prices in tons, ½ tons, or carload.

## Bone Flour.

Made especially for Florists and Gardeners. This flour is passed through a 30-mesh screen and is consequently exceedingly fine, and in addition to this, it is the Pure Bone, containing no foreign matter at all. Write for sample.

Price \$4.00 per bag of 167 pounds.

## Soft Ground Bone.

In packages.

5 lbs. 25c; 10 lbs. 40c;

## How to make INSECTICIDES FUNGICIDES.

### BORDEAUX MIXTURE.

Copper Sulphate.....	6 pounds.
Quicklime.....	4 pounds.
Water.....	40-50 gallons.

Dissolve the copper sulphate by putting in a bag of coarse cloth and hanging this in a vessel holding at least 4 gallons, so that it is just covered by the water. Use an earthen or wooden vessel. Slake the lime in an equal amount of water. Then mix the two, and add enough water to make 40 gallons. It is then ready for immediate use.

### COPPER SULPHATE SOLUTION.

Copper Sulphate.....	1 pound.
Water.....	15 gallons.

Dissolve the copper sulphate in the water, when it is ready for use. This should never be applied to foliage, but must be used before the buds break. For peaches and nectarines, use 25 gallons of water. For fungous diseases,

### INSECTICIDES.

#### KEROSENE EMULSION.

Hard Soap.....	½ pound.
Boiling Water.....	1 gallon.
Kerosene.....	2 gallons.

Dissolve the soap in water, add the kerosene, and churn with a pump for 5 to 10 minutes. Dilute 10 to 25 times before applying. Use strong emulsion for all scale insects. For insects which suck, as plant lice, mealy bugs, red spider, thrips, bark lice, or scale.

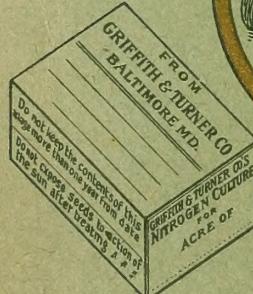
### LIME, SULPHUR AND SALT WASH—TO MAKE FIFTY GALLONS.

Best unslaked lime.....	30 pounds.
Flour, Sulphur.....	15 pounds.
Stock salt.....	12 pounds.
Water to make.....	50 gallons.

# GRIFFITH & TURNER CO.

## FARM AND GARDEN SUPPLIES

### BALTIMORE.



THE NEW METHOD OF FERTILIZING THE SOIL,  
ONE OF THE GREATEST DISCOVERIES OF THE AGE.

GRIFFITH  
AND  
TURNER CO'S  
ANIMAL  
BONE  
PHOSPHATE

**KIL-O-SCALE**  
THE GREAT SAN-JOSÉ SCALE DESTROYER.